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| 1. Record Nr.           | UNINA9910916000203321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Autore                  | Pazzi Marie-Madeleine De                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Titolo                  | Entretiens : Traduction et Annotation. Preface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Pubbl/distr/stampa      | Paris : , : Honoré Champion, , 2022<br>©2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ISBN                    | 2-7453-5805-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Edizione                | [1st ed.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Descrizione fisica      | 1 online resource (632 pages)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Collana                 | Mystica ; ; v.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Altri autori (Persone)  | TuveriGianfranco<br>PapasogliBenedetta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Lingua di pubblicazione | Francese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Nota di contenuto       | Intro -- PRÉFACE -- INTRODUCTION -- ENTRETIENS -- PREMIER ENTRETIEN -- DEUXIÈME ENTRETIEN -- TROISIÈME ENTRETIEN -- QUATRIÈME ENTRETIEN -- CINQUIÈME ENTRETIEN -- SIXIÈME ENTRETIEN -- SEPTIÈME ENTRETIEN -- HUITIÈME ENTRETIEN -- NEUVIÈME ENTRETIEN -- DIXIÈME ENTRETIEN -- ONZIÈME ENTRETIEN -- DOUZIÈME ENTRETIEN -- TREIZIÈME ENTRETIEN -- QUATORZIÈME ENTRETIEN -- QUINZIÈME ENTRETIEN -- SEIZIÈME ENTRETIEN -- DIX-SEPTIÈME ENTRETIEN -- DIX-HUITIÈME ENTRETIEN -- DIX-NEUVIÈME ENTRETIEN -- VINGTIÈME ENTRETIEN -- VINGT-ET-UNIÈME ENTRETIEN -- VINGT-DEUXIÈME ENTRETIEN -- VINGT-TROISIÈME ENTRETIEN -- VINGT-QUATRIÈME ENTRETIEN -- VINGT-CINQUIÈME ENTRETIEN -- VINGT-SIXIÈME ENTRETIEN -- VINGT-SEPTIÈME ENTRETIEN -- VINGT-HUITIÈME ENTRETIEN -- VINGT-NEUVIÈME ENTRETIEN -- TRENTIÈME ENTRETIEN -- TRENTE-ET-UNIÈME ENTRETIEN -- TRENTE-DEUXIÈME ENTRETIEN -- TRENTE-TROISIÈME ENTRETIEN -- TRENTE-QUATRIÈME ENTRETIEN -- TRENTE-CINQUIÈME ENTRETIEN -- TRENTE-SIXIÈME ENTRETIEN -- TRENTE-SEPTIÈME ENTRETIEN -- TRENTE-HUITIÈME ENTRETIEN -- TRENTE-NEUVIÈME ENTRETIEN -- QUARANTIÈME ENTRETIEN -- QUARANTE-ET-UNIÈME ENTRETIEN -- QUARANTE-DEUXIÈME ENTRETIEN -- QUARANTE-TROISIÈME ENTRETIEN -- QUARANTE-QUATRIÈME ENTRETIEN -- QUARANTE-CINQUIÈME ENTRETIEN -- QUARANTE-SIXIÈME ENTRETIEN -- QUARANTE-SEPTIÈME |

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| 2. Record Nr.           | UNINA9910483745203321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Autore                  | Harper Scott (Mathematician)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Titolo                  | The Spread of Almost Simple Classical Groups // by Scott Harper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ISBN                    | 3-030-74100-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Edizione                | [1st ed. 2021.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Descrizione fisica      | 1 online resource (158 pages)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Collana                 | Lecture Notes in Mathematics, , 1617-9692 ; ; 2286                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disciplina              | 512.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Soggetti                | Group theory<br>Group Theory and Generalizations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Nota di contenuto       | Intro -- Preface -- Contents -- 1 Introduction -- 2 Preliminaries -- Notational Conventions -- 2.1 Probabilistic Method -- 2.2 Classical Groups -- 2.3 Actions of Classical Groups -- 2.4 Standard Bases -- 2.5 Classical Algebraic Groups -- 2.6 Maximal Subgroups of Classical Groups -- 2.7 Computational Methods -- 3 Shintani Descent -- 3.1 Introduction -- 3.2 Properties -- 3.3 Applications -- 3.4 Generalisation -- 4 Fixed Point Ratios -- 4.1 Subspace Actions -- 4.2 Nonsubspace Actions -- 5 Orthogonal Groups -- 5.1 Introduction -- 5.2 Automorphisms -- 5.2.1 Preliminaries -- 5.2.2 Plus-Type -- 5.2.3 Minus-Type -- 5.2.4 Conjugacy of Outer Automorphisms -- 5.3 Elements -- 5.3.1 Preliminaries -- 5.3.2 Types of Semisimple Elements -- 5.3.3 Reflections -- 5.3.4 Field Extension Subgroups -- 5.4 Case I: Semilinear Automorphisms -- 5.4.1 Case I(a) -- 5.4.2 Case I(b) -- 5.5 Case II: Linear Automorphisms -- 5.5.1 Case II(a) -- 5.5.2 Case II(b) -- 5.6 Case III: Triality Automorphisms -- 5.6.1 Case III(a) -- 5.6.2 Case III(b) -- 5.6.3 Case III(c) -- 6 Unitary Groups -- 6.1 Introduction -- 6.2 Automorphisms -- 6.3 Elements -- 6.4 Case I: Semilinear Automorphisms -- 6.4.1 Case I(a) -- 6.4.2 Case I(b) -- 6.5 Case II: Linear Automorphisms -- 6.5.1 Case II(a) -- 6.5.2 Case II(b) -- 6.6 |

Sommario/riassunto

This monograph studies generating sets of almost simple classical groups, by bounding the spread of these groups. Guralnick and Kantor resolved a 1962 question of Steinberg by proving that in a finite simple group, every nontrivial element belongs to a generating pair. Groups with this property are said to be  $3/2$ -generated. Breuer, Guralnick and Kantor conjectured that a finite group is  $3/2$ -generated if and only if every proper quotient is cyclic. We prove a strong version of this conjecture for almost simple classical groups, by bounding the spread of these groups. This involves analysing the automorphisms, fixed point ratios and subgroup structure of almost simple classical groups, so the first half of this monograph is dedicated to these general topics. In particular, we give a general exposition of Shintani descent. This monograph will interest researchers in group generation, but the opening chapters also serve as a general introduction to the almost simple classical groups. .

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