1. Record Nr. UNINA9910787284303321 Autore Arntzenius Frank **Titolo** Space, time, and stuff / / Frank Arntzenius; with a contribution by Cian Dorr Pubbl/distr/stampa Oxford, England:,: Oxford University Press,, 2014 ©2012 0-19-162914-6 **ISBN** Descrizione fisica 1 online resource (297 p.) Disciplina 111 Soggetti Ontology Space and time Geometry in nature Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia ""Cover"": ""Space, Time, and Stuff"": ""Copyright"": ""Contents"": Nota di contenuto ""Preface""; ""Introduction""; ""1: It's just one damn thing after another""; ""1.1 Introduction""; ""1.2 The structure of time and space in Newtonian physics""; ""1.3 The structure of time and space in relativistic physics""; ""1.4 The idea that time has no structure""; ""1.5 Ridding time of structure in Newtonian particle physics""; ""1.6 Ridding time of structure in Special Relativity""; ""1.7 Ridding time of structure in General Relativity""; ""2: There goes the neighbourhood . . . ""; ""2.1 Introduction"" ""2.2 How separable is the geometric structure of spacetime?"""2.3 How separable is classical particle structure?""; ""2.4 Are velocities intrinsic to spacetime points?""; ""2.5 How separable are the properties of classical fields?""; ""2.6 Separability, dynamical locality, and relativity""; ""3: The world according to quantum mechanics""; ""3.1 Introduction""; ""3.2 An argument that the world is not separable according to quantum mechanics""; ""3.3 Configuration space realism"": ""3.4 Configuration space realism in Newtonian particle mechanics"" ""3.5 Configuration space realism in non-relativistic quantum particle mechanics"""3.6 Relativistic quantum mechanics and narratibility failure""; ""3.7 Can one use dynamics to rescue narratability?""; ""3.8

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