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| Nota di contenuto       | Cover -- Title page -- Chapter 1. Introduction -- 1.1. Statement of our<br>main results -- 1.2. Overview of the proofs of Theorems 1.1.2 and<br>1.1.3 -- 1.3. Some related open questions -- Chapter 2. Notation --<br>Chapter 3. Proof of Theorem 1.1.3 -- 3.1. Sporadic groups -- 3.2.<br>Alternating groups -- 3.3. Groups of Lie type -- Chapter 4. Proof of<br>Theorem 1.1.2(1) -- Chapter 5. Proof of Theorem 1.1.2(2) -- 5.1.<br>Reduction to semisimple groups -- 5.2. Two lemmas for working with<br>partitions -- 5.3. Some auxiliary results on finite simple groups -- 5.4.<br>Gaining some control over socle cosets in finite semisimple groups --<br>5.5. Another equivalent reformulation of Theorem 1.1.2(2) -- 5.6. A bit<br>of elementary number theory -- 5.7. Some results concerning the<br>classes $\mathcal{Hc}_l$ , , } -- 5.8. More restrictions on finite semisimple<br>groups with bounded $q$ -value -- 5.9. Completing the proof of<br>Theorem 1.1.2(2) -- Bibliography -- Back Cover. |

"For a finite group  $G$ , we denote by  $[\omega](G)$  the number of  $\text{Aut}(G)$ -orbits on  $G$ , and by  $o(G)$  the number of distinct element orders in  $G$ . In this paper, we are primarily concerned with the two quantities  $d(G) : [\omega](G) - o(G)$  and  $q(G) : [\omega](G) / o(G)$ , each of which may be viewed as a measure for how far  $G$  is from being an AT-group in the sense of Zhang (that is, a group with  $[\omega](G) = o(G)$ ). We show that the index  $|G : \text{Rad}(G)|$  of the soluble radical  $\text{Rad}(G)$  of  $G$  can be bounded from above both by a function in  $d(G)$  and by a function in  $q(G)$  and  $o(\text{Rad}(G))$ . We also obtain a curious quantitative characterization of the Fischer-Griess Monster group  $M$ "--

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