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the year 1897 was marked by two important mathematical events the publication of the first paper on representations of finite groups by ferdinand georg frobenius 1849 1917 and the appearance of the first treatise in english on the theory of finite groups by william burnside 1852 1927 by the late 1930s the pioneering work of frobenius burnside and schur on representations over elds of characteristic 0 was being enriched by brauer s deep study of representations over elds of prime characteristic its goal is to acquaint the reader with the history of the theory of representations of finite groups through a detailed analysis of the major papers of the founders of the discipline frobenius burnside schur and brauer and other mathematicians pioneers of representation theory frobenius burnside schur and brauer by curtis charles w publication date 1999 topics finite groups history representations of groups history publisher providence ri american mathematical society london london mathematical society the representation theory of finite groups began with the pioneering research of frobenius burnside and schur at the turn of the century their work was inspired in part by two largely unrelated developments which occurred earlier in the nineteenth century the proof will also illustrate a clever idea of brauer who after frobenius schur and burnside is the most important historical figure in the representation theory of finite groups while frobenius schur and burnside were an earlier generation brauer lived 1901 1977 american mathematical society 1999 mathematics 287 pages they were soon joined in this enterprise by issai schur 1875 1941 and some years later by richard brauer 1901 1977 these pioneers of representation theory frobenius burnside schur and brauer c curtis published 5 october 1999 mathematics some 19th century algebra and number theory frobenius and the invention of character theory burnside representations and structure of finite groups schur a new beginning pioneers of representation theory frobenius burnside schur and brauer by charles w curtis history of mathematics vol 15 providence ri american mathematical society 1999 287 pp 49 hardcover 39 soft cover core reader pioneers of representation theory frobenius burnside schur and brauer history of mathematics 15 xvi 287 pp illus apps bibl index providence ri american mathematical society 1999 49 frobenius and the invention of character theory burnside representations and structure of finite groups schur a new beginning polynomial representations of gl_n mathbb c richard brauer and emmy noether 1926 1933 the year 1897 was marked by two important mathematical events the publication of the first paper on representations of finite groups by ferdinand georg frobenius 1849 1917 and the appearance the year 1897 was marked by two important mathematical events the publication of the first paper on representations of finite groups by ferdinand georg frobenius 1849 1917 and the appearance of the first treatise in english on the theory of finite groups by william burnside 1852 1927 the lemma was apparently known by cauchy 1845 in obscure form and frobenius 1887 prior to burnside s 1900 rediscovery it is sometimes also called burnside s lemma the orbit counting theorem the pólya burnside lemma or even the lemma that is not burnside s we discuss the general burnside problem for locally finite groups section 6 2 for polycyclic by finite and solvable groups section 6 3 as well as its bounded version for linear groups section 6 4 pioneers of representation theory frobenius burnside schur and brauer by charles w curtis history of mathematics vol 15 providence ri american mathematical society 1999 287 pp we introduce generalized frobenius schur indicators for pivotal categories in a spherical fusion category mathcal c an equivariant indicator of an object in mathcal c is defined as a functional on the grothendieck algebra of the quantum double z mathcal c via generalized frobenius schur indicators the set of all it is well known that the value of the frobenius schur indicator $g \frac{1}{|g|} \sum_{g \in G} \chi(g)^2$ pm 1 of a real irreducible representation of a finite group G determines which of the two types of real representations it belongs to i e whether it is strictly real or quaternionic frobenius burnside schur and brauer pioneers of representation theory sheng gong pioneers of representation theory frobenius burnside schur and brauer charles w curtis 1999 the ams history of mathematics series is one of the most popular items for bookstore sales these books feature colorful attractive mimosa x burnside set atop a family mart in harajuku the heart of tokyo s street culture and art scene burnside is a chef driven casual café and eatery by day and a restaurant bar and lounge by night

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