

The $F^{a,b,c}$ conjecture is true

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The groups $F^{a,b,c}$ were defined by Coxeter in the 1970s. A conjecture which gives the structure of all finite groups in this class was made over 30 years ago. Although some progress was made over the years, the complete conjecture remained unsolved until recently. We describe how we (myself, George Havas and Dale Sutherland) used the computer programme PEACE to motivate the solution of the conjecture. We also describe more recent results on infinite members of the class $F^{a,b,c}$.