"Group Theory International" Online Seminar

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"Geodesic growth in right-angled Artin and even Coxeter groups"

Thursday, Nov 8, noon (New York Time)

Abstract:

It has long been known that the spherical or standard growth of a right-angled Coxeter (or Artin) group depends only on the f-polynomial of the graph it is based on. Thus there are many non-isomorphic right- angled Coxeter (or Artin) groups with the same spherical growth. In this talk we consider geodesic instead of spherical growth, and discuss which combinatorial properties of a regular graph can completely determine the geodesic growth of the right-angled Coxeter group this graph defines. As a consequence, we provide the first known examples of right-angled and even Coxeter groups with the same geodesic growth series.
This is joint work with Yago Antolin Pichel.

Next presentation: **Nov 22**, Yago Antolin Pichel *(University of Southampton, UK)*

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