

Mathematics and CS Seminar

GeomTop Seminar: Colin de Verdiere parameter and representations of graphs

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Host: Uli Wagner

The Colin de Verdiere parameter ?(G) is known to capture some of theembeddability properties of a graph G: For instance, ?(G) ? 3 if and only ifG is planar and ?(G) ? 4 if and only if G is linkless embeddable. In orderto study topological properties of graphs G with ?(G) > 4, van der Holst andPendavingh introduced a parameter ?(G). They showed that ?(G) ? k if andonly if ?(G) ? k for k = 1, 2, 3, 4. In addition, they proved that ?(G) ? ?(G)+2for every G and conjectured that ?(G) ? ?(G) in general. They also showed that the two parameters may differ.In this talk, after an introduction on the parameters ? and ?, I plan topresent a proof of the aforementioned conjecture of van der Holst and Pen-davingh. This is a joint work with Martin Tancer.

Wednesday, December 11, 2019 01:00pm - 02:15pm

Mondi Seminar Room 3, Central Building



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