

# Right-angled Artin groups and the cohomology basis graph

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## **Abstract**

Right-angled Artin groups (Raags) are groups obtained from simplicial graphs. It is an important result that two graphs are isomorphic if and only if the corresponding Raags are themselves isomorphic. In the last years there has been great interest in characterizing graph properties via Raags. In this talk I will talk about recent results in this domain. More specifically, I will talk about an effective way of recovering the graph and obtain invariants from the corresponding Raag. This is done using cohomological methods. No prior knowledge on Raags, cohomology and graphs will be assumed. This is joint work with Ramon Flores (University of Seville), Delaram Kahrobaei (City University of New York) and Thomas Koberda (University of Virginia).