Otto-von-Guericke-Universität Magdeburg Fakultät für Mathematik

Auf Einladung des Institutes für Algebra und Geometrie spricht

## Prof. Dr. Luis Paris

(Institut de Mathématiques de Bourgogne)

über das Thema

## Dyer groups

**Zeit:** Dienstag, 14. Februar 2023, 13.00 Uhr, G03-214 oder per Zoom Meeting ID 971 4945 5855, passcode 490213

Zu diesem Vortrag laden wir alle Interessierten herzlich ein.

Dr. Olga Varghese

Abstract: Join work with Mireille Soergel. Coxeter groups and right-angled Artin groups share the same solution to the word problem, that given by Tits in 1969 for Coxeter groups and that given by Green in 1990 for right-angled Artin groups. It is therefore natural to ask the following questions. What do these two families of groups have in common that makes them to have the same solution to the word problem? Are there other groups with the same solution to the word problem? If so, which common properties of Coxeter groups and right-angled Artin groups can be extended to these groups? Some groups introduced by Dyer in 1990 partially answer these questions. This is what we explain in this talk.