



## Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

**Dienstag, 13. Juni 2023**

17 Uhr, Geom H4

Dr. Attila Joó  
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**Habilitationsvortrag  
Flames in infinite graphs**

Abstract:

Subgraphs preserving some connectivity properties while having as few edges as possible have been a subject of interest since the beginning of graph theory. The minimal number of edges in a finite digraph that we need in order to preserve all the outgoing local connectivities from a vertex  $r$  must be at least the sum of the local connectivities from  $r$  to all the other vertices. Lovász showed that, maybe surprisingly, this trivial lower bound is always sharp. In the talk I am going to introduce a structural generalization of this phenomenon to infinite digraphs and present the corresponding results we obtained with Erde, Gollin and Gut.

**Vor dem Vortrag (ab 16.30 Uhr) stehen im Foyer vor Hörsaal H4  
Kaffee und Tee bereit.**