

EINLADUNG

zu

einem didaktischen Vortrag

im Rahmen der Habilitation von

Christopher Cashen, PhD
(Fakultät für Mathematik, Universität Wien)

**“Subgroup structure of free groups via the topology of
finite graphs”**

**“Subgroup structure of free groups via the topology of
finite graphs”**

Abstract:

I will talk about how to understand finitely generated subgroups of free groups in terms of finite graphs. The main result will be a proof of Marshall Hall's Theorem in the style of Stallings using foldings of graphs. The theorem says that every finitely generated subgroup of a free group is a free factor of a finite index subgroup.

I will assume knowledge of basic group theory, but no prior experience in topology or graph theory is required.

**Freitag, 13. Dezember 2019,
10:30 Uhr – 11:15 Uhr,**

**Fakultät für Mathematik,
Oskar-Morgenstern-Platz 1,
Besprechungszimmer, 9. OG.**

Ilse Fischer