



universität
wien

Fakultät für Mathematik

ANTRITTSVORLESUNG
Mathematisches Kolloquium

Mittwoch, 22. Jänner 2020
Sky Lounge

EINLADUNG

Sara Merino Aceituno
(Uni Wien)

**„The emergent world: linking large-scale phenomena
with small-scale dynamics“**

**"The emergent world: linking large-scale
phenomena with small-scale dynamics"**

Abstract:

How do birds self-organise into flocks? How a populations' behavior is the result of the individuals' behavior? How do cells organise into tissues? How natural networks, like capillaries, are created? All these are examples of emergent phenomena: from the interactions between many particles or agents, large-scale structures arise at much larger scale than the individuals' sizes. We will see how we can investigate emergence with kinetic theory and the numerous challenges ahead of us.

15.45 Uhr: Kaffeejause

16.15 Uhr: Vortrag

Kleines Buffet im Anschluss

Roland Donninger
Christian Krattenthaler