



Programme 2nd ML4Q-Focus Area A Meeting “Majorana devices and topological matter”

Wednesday, June 21st, 2023, 14:00-18:00 (only local)

Lecture room F (room 0.40), first floor in building 301 (Molecular Biosciences),
Zülpicher Straße 47a, 50674 Cologne.

Directions: right next to the DB Bahnhof Süd or the streetcar stop of line 9 (Dasselstraße/Bf Süd), and 5 minutes from the streetcar stop of line 18 (Eifelwall, which runs through from Köln Hbf)

14:00 Welcome

Talks (20 min talk/10 min discussion)

14:05 Arif Laskar (Bonn, Weitz group)

Chiral edge dynamics in a synthetic quantum Hall system with an atomic erbium Bose-Einstein condensate

14:35 Franco Lisandrini + Niklas Tausendpfund (shared) (Kollath + Rizzi groups)

Majorana zero modes in coupled fermionic wires

15:05 Coffee break

15:20 Junya Feng (Cologne, Ando group)

Andreev bound states and crossed Andreev reflection in proximitized topological insulator nanowires

15:50 Benedikt Frohn (Jülich, Schüffegen group)

Transport spectroscopy on proximitized $(\text{Bi,Sb})_2\text{Te}_3$ -based topological insulator nanoribbons

16:20 Coffee break

16:40 **In small groups: Open discussion (self-organized by joined interest)**

18:00 end of meeting