

## **S4A2 Graduate Seminar on Representation Theory**

Do 14-16, SR 1.007

### Topic I. Jordan-Hölder series, Krull-Schmidt theorem

11.4 Blödtner, Jordan-Hölder series

18.4 Liao, Krull-Schmidt theorem

25.4 Wojciechowski, Idempotents and Cartan matrix

2.5 Mazziotta, Hereditary algebras

### Topic II. Monoidal categories

9.5 Kretschmer, Basics on monoidal categories

16.5 Dong, Monoidal functors and natural transformations

23.5 Louis, Graphical calculus

30.5 Christi Himmelfahrt

### Topic III. Grassmannians and flag varieties

6.6 Puhmann, Flag varieties

13.6 Pfungsten

20.6 Fronleichnam

27.6 Lorke, Connections with representation theory of  $GL(V)$

4.7 Stelzner tba

11.7 Wehrhan tba