

**Abstract:**

The aim of this Minisymposium is two-fold. First and foremost, we want to bring talented young researchers into contact with more experienced mathematicians from Germany and abroad in order to facilitate a direct exchange of ideas between different generations. The second goal is to advertise some of the very exciting recent developments at the interface of algebra and low-dimensional topology, especially in the area of link homology theories and categorification, to the wider German mathematical community. We believe that this Minisymposium would complement the planned sections very well and would be of interest also to a wider audience of researchers in pure mathematics.