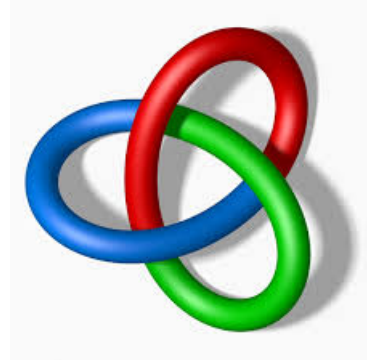


**Oberseminar Geometrie**  
Department of Mathematics  
University of Fribourg  
Lecture room 2.52 Physics  
**Wednesday April 6, 2022, 10:20**



LIVIO FERRETTI (UNIBE)

### **On a conjecture for the knot signature**

The Levine-Tristram signature is a classical topological knot invariant. In 2018, Kashaev constructed a new combinatorial invariant, conjecturally equal to the classical Levine-Tristram signature, thus potentially providing the first combinatorial definition of the signature and opening unexpected relations to quantum topology.

In this talk we will recall the definition of the signature, explain the construction of Kashaev and discuss some partial results in collaboration with David Cimasoni that provide further evidence to the conjecture.