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## **Magician's rope and Rubik's cubes: innovative approaches to teaching pure maths**

**Day 1 – Parallel I (11-30-12.00)**

Being situated within a degree on the applied end of the spectrum of maths degrees, the pure maths modules at Sheffield Hallam have an applied spin. Pure topics are taught through consideration of practical examples such as knots, cryptography, Rubik's cubes and automata. In the presentation we will discuss the physical use of rope and Rubik's cubes within the classroom environment to investigate abstract ideas. The advantages and challenges of using these resources both within the teaching environment and assessment will be explored.