

## **TROPICAL GEOMETRY AND MATROIDS**

**Speaker: Kris Shaw**  
**University of Oslo**

**Time: Mon, Jun. 14, 15:30-16:45 (GMT+8)**

**Venue: Zoom Room number: 897 3490 8250, Password: 235711**

**Abstract:** I will end by describing tropical varieties of degree 1 and their connections to matroid theory. Every matroid produces a tropical linear space and many matroid invariants can be recovered as algebro-geometric invariants. The invariants from algebraic geometry that can be transported to the study of matroids include intersection theory, cohomology theories, characteristic classes (Chern-Schwartz-MacPherson classes). The analogy with algebraic geometry