

## **Abstract**

Oberwolfach Workshop:

### **Toric Geometry**

Dates:

**6 April - 11 April 2025** (Code: 2515)

Organizers:

**Daniel Erman, Honolulu**  
**Milena Hering, Edinburgh**  
**Nathan Ilten, Burnaby**  
**Hendrik Süß, Jena**

Toric geometry is a part of algebraic geometry that studies toric varieties, i.e., equivariant compactifications of algebraic tori. Toric varieties can be studied using combinatorial methods, and these additional tools allows for toric geometry to be a fertile ground for exploration of new theories and for testing conjectures. The workshop "Toric Geometry" will bring together researchers using toric methods from different areas in algebraic geometry. The key objectives are to promote interaction between these areas, facilitate the exchange of new methods in toric geometry, and raise awareness of emerging new questions.