Modular interpretation and equations for modular varieties

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This mini-course will focus on examples of the modular interpretation of holomorphic automorphic forms and on their use in finding explicit equations for modular varieties.

- 1. Modular curves, elliptic modular forms, and moduli of elliptic curves
- 2. More general families of abelian varieties and the corresponding modular varieties
- 3. Graded rings of holomorphic automorphic forms and their relation to Hecke operators
- 4. Implicit equations for modular varieties by interpolation of special values of automorphic forms