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Local structure of PEL moduli spaces

We shall discuss the local structure of PEL moduli spaces—the moduli spaces parameterizing abelian varieties with polarization, endomorphism and level structure. Two main techniques will be exposed: local models and displays. Both very geometric in nature, though eventually very algebraic.

We shall explain a general theorem, due to Andreatta and the speaker, that allows calculation of universal displays and show how it recaptures also previously known cases.