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Calabi-Yau threefolds and modular curves

I'll discuss recent work which characterizes some of the types of K3 surfaces which arise as the generic fiber of a K3 fibration on a Calabi-Yau threefold. The proof uses basic facts about the modular curves associated to the groups $\Gamma_0(n)^+$. This is joint work with C.F. Doran and A. Thompson.