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SYZ mirror symmetry for some Calabi-Yau surface pairs

I will discuss a proof of a strong form of the SYZ mirror symmetry conjecture for Calabi-Yau surfaces pairs constructed from del Pezzo surfaces and rational elliptic surfaces. Time permitting, I will also mention some applications, including to the Torelli theorem for ALH^* gravitational instantons. This is joint work with A. Jacob and Y.-S. Lin.