

## **Homological mirror symmetry for projective K3 surfaces**

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Joint work with Paul Hacking. We outline a proof that the Fukaya category of a projective K3 surface is equivalent to the derived category of coherent sheaves on the mirror, which is a K3 surface of Picard rank 19 over the field  $\mathbb{C}((q))$  of formal Laurent series. This builds on prior work of Seidel, who proved the theorem in the case of the quartic surface, Gross-Siebert, Kontsevich-Soibelman, Sheridan, and others.