Unlikely intersections in Shimura varieties

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In this talk, we will give our perspective on the Zilber-Pink conjecture, following our recent attempts to obtain conditional results in that direction. In particular, we will dicuss the recent result of Mok, Pila, and Tsimerman, which we refer to as the hyperbolic Ax-Schanuel conjecture, as well as analogues of the structure theorems of Bombieri, Masser, and Zannier, and arithmetic problems arising from attempts to adapt the usual Pila-Zannier method.

This is based on joint work with Jinbo Ren.