

THE BRUMER—STARK CONJECTURE AT $P=2$.

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In this talk we explain the obstruction in Ribet's method to the construction of extensions of characters that are residually indistinguishable. We then present a version of Ribet's lemma that overcomes this obstacle. This is used in the proof of the Brumer—Stark conjecture at $p=2$. This is joint with Jesse Silliman and Jiuya Wang.