

## **Local well-posedness for higher order Benjamin-Ono type equations**

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In this talk, we consider the local well-posedness for higher order Benjamin-Ono type equations, especially fourth order equations. The proof is based on the energy method with correction terms. Our equations have at most three derivatives in nonlinear terms, so that we need to cancel out all derivative losses by introducing correction terms into the energy. We also employ the Bona-Smith approximation technique in order to show the continuity of the flow and the continuous dependence.