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Hongdi Huang, Van C Nguyen, Charlotte Ure, Kent B Vashaw* (kentv@mit.edu),
Padmini Veerapen and **Xingting Wang**. *Can a Zhang twist be a cocycle twist?*

We introduce the notion of a twisting pair for a \mathbb{Z} -graded Hopf algebra H , and use it to study Zhang twists of H , H -cleft objects, and 2-cocycle twists of H . We will discuss examples, including Manin's universal quantum groups and quantized coordinate rings. (Received September 18, 2021)