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Keiko Kawamuro*, 14 MacLean Hall, Iowa City, IA 52242. *Right-veering and twist-left-veering open books.*

Given a contact 3-manifold, detecting tight or overtwisted is a fundamental problem. Via the Giroux-correspondence, studying contact 3-manifolds is equivalent to studying open books. Honda, Kazez, and Matic proved that non-right-veering open books support overtwisted contact structures. In this talk, I will define twist-left-veering open books that I introduced with Tetsuya Ito, and show that if a right-veering open book is twist-left veering then it supports an overtwisted contact structure. I also give comparison of twist-left-veering and Wand's inconsistency and give applications. (Received September 10, 2019)