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Patricia Cahn* (pcahn@math.upenn.edu) and **Vladimir Chernov**. *Knots Transverse to a Vector Field*.

We study knots transverse to a fixed vector field V on a 3-manifold M up to the corresponding isotopy relation. We show this classification is particularly simple when V is the co-orienting vector field of a tight contact structure, or when M is irreducible and atoroidal. We also apply our results to study loose Legendrian knots in overtwisted contact manifolds, and generalize results of Dymara and Ding-Geiges. (Received February 24, 2015)