1107-57-492   **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 coorienting 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 January 20, 2015)