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Lenhard Ng and **Dan Rutherford*** (drrutherford@uark.edu). *Satellites of Legendrian knots and representations of the Chekanov-Eliashberg algebra.*

The Chekanov-Eliashberg differential graded algebra (DGA) is an invariant of Legendrian knots in standard contact \mathbb{R}^3 that is a particular instance of Legendrian contact homology. There is a well-known correspondence between augmentations of the Chekanov-Eliashberg DGA and normal rulings of the front projection of L . We generalize this result to provide a necessary and sufficient condition for the existence of finite-dimensional representations of the DGA in terms of normal rulings of satellites of L . As a consequence, the existence of ungraded representations of any given dimension depends only on the Thurston-Bennequin number and underlying smooth knot type of L . (Received September 16, 2013)