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Characterizations of almost contact Lagrangian submanifolds of nearly Kaehler unit 6-sphere. Preliminary report.

First, we show that a global unit vector field on a Lagrangian submanifold M of the nearly Kaehler 6-sphere, induces an almost contact metric structure on M . Then, we provide characterizations of M , under conditions when the induced structure is (i) contact metric, and (ii) normal almost contact metric. In particular, we show that this structure is Sasakian if and only if a specifically designed $(1, 1)$ -tensor field on M vanishes. (Received May 28, 2014)