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Title: Characterizing linear Weingarten submanifolds in a Riemannian space form via L -parabolicity

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We obtain a parabolicity criterion related to a modified Cheng–Yau’s operator, and we apply it to prove that a complete linear Weingarten submanifold, immersed with parallel normalized mean curvature vector in a Riemannian space form \mathbb{Q}_c^{n+p} of constant sectional curvature $c \in \{-1, 0, 1\}$ must be either totally umbilical or isometric to a hyperbolic cylinder, when $c = -1$, a circular cylinder, when $c = 0$, and a Clifford torus, when $c = 1$.

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