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1/4 pinched manifolds are space forms

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We describe recent joint work with Richard Schoen on the Ricci flow in higher dimensions. We show that the notion of positive isotropic curvature (PIC) leads to new invariant curvature conditions for the Ricci flow. Using these ideas, we obtain a new convergence result for a class of manifolds that includes all manifolds with 1/4-pinched sectional curvatures.

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