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**Joerg Enders\*** ([joerg.enders@uni-potsdam.de](mailto:joerg.enders@uni-potsdam.de)). *Blow-ups of Type I Ricci flows.*

Hamilton conjectured that singularities of Ricci flow should be modeled by non-flat shrinking solitons because of the scaling and diffeomorphism invariance of the equation. Based on the monotonicity and scaling behavior of Perelman's reduced volume functional, we will give a proof of Hamilton's conjecture for the case of Type I Ricci flows and discuss applications regarding the curvature blow-up and partial regularity in this situation. This is joint work with Reto Müller and Peter Topping. (Received June 28, 2011)