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Jeffrey S. Case* (jscase@psu.edu). *The Q' -curvature in CR geometry.*

The Q' -curvature is a pseudohermitian invariant of a strictly pseudoconvex CR manifold which behaves nicely with respect to change of contact form; for example, the total Q' -curvature is a CR invariant. I will describe these properties and some classification results involving the total Q' -curvature in dimensions three and five. This talk is based on joint works with Paul Yang and Rod Gover. (Received February 04, 2016)