

# A Note On Comparison Principles For Viscosity Solutions Of Fully Nonlinear Second Order Partial Differential Equations

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## Abstract

This note contains two comparison principles from the author's thesis for viscosity sub- and supersolutions of fully nonlinear, second order, partial differential equations. One of these comparison principles is based on a result by R. Jensen. A new kind of structure condition is introduced to prove the comparison result. It allows us to compare viscosity sub- and supersolutions of the equation  $F(u, Du, D^2u) = 0$  in  $\Omega \subset \mathbb{R}^N$ , where  $F$  does not satisfy the usual monotonicity conditions.

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