ON THE WEAK MAXIMUM PRINCIPLE IN UNBOUNDED DOMAINS

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I will give an overview of some results concerning the validity of sign propagation property

 $u \leq 0$ on $\partial\Omega$, $F(x, u, Du, D^2u) \geq 0$ in Ω implies $u \leq 0$ in Ω in an unbounded domain Ω satisfying either measure-type or geometric conditions related to the directions of ellipticity of the (possibly degenerate) fully nonlinear mapping F.