

**Semiconcavity of viscosity solutions for a class of degenerate elliptic  
integro-differential equations in  $\mathbb{R}^n$**

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This talk is about semiconcavity of viscosity solutions for a class of degenerate elliptic integro-differential equations in  $\mathbb{R}^n$ . This class of equations includes Bellman equations containing operators of Lévy–Ito type. Holder and Lipschitz continuity of viscosity solutions for a more general class of degenerate elliptic integro-differential equations are also provided.