On isolated singular solutions to Lane-Emden equation

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Abstract: We will talk about solutions with fast decaying or slow decaying at infinity to Lane-Emden equation with nonhomogeneous potential and when the exponent belongs to certain range involvingt the Joseph-Lundgren exponent. We construct a sequence of fast decaying solutions and slow decaying solutions. The talk is based on joint works with H.Y.Chen, X.Huang and Z.M.Guo.