1135-35-919   **Qi Han*** (`qhan@tamusa.edu`), Assistant Professor, Department of Mathematics, Texas A&M University at San Antonio, San Antonio, TX 78224. *Positive ground states for nonlinear static Schrödinger equations that have potentials vanishing at infinity.*

We consider the existence of positive ground states for the nonlinear Schrödinger elliptic equations

$$-\Delta u + V(x)\, u = K(x)\, g(u) \tag{1}$$

that have potentials $V(x), K(x) \geq 0$ both vanishing at infinity in a measure-theoretical sense when $N \geq 3$. (Received September 16, 2017)