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An effective method to compute closure ordering for nilpotent orbits of \mathfrak{g}_θ -representations

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We develop an algorithm for computing the closure of a given nilpotent \mathfrak{g}_0 -orbit in \mathfrak{g}_1 , where \mathfrak{g}_1 and \mathfrak{g}_0 are coming from a \mathbb{Z} or a $\mathbb{Z}/m\mathbb{Z}$ -grading $\mathfrak{g} = \bigoplus \mathfrak{g}_i$ of a simple complex Lie algebra \mathfrak{g} .

Subjects: **Algebraic Geometry (math.AG)**; Representation Theory (math.RT)

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