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Federico Galetto* (galetttof@math.mcmaster.ca), **Anthony V. Geramita**, **Yong-Su Shin**
and **Adam Van Tuyl**. *The symbolic defect of an ideal.*

We introduce the notion of symbolic defect in relation to containment problems of ordinary and symbolic powers of ideals. Namely, the m -th symbolic defect of an ideal is the minimal number of generators that one needs to add to the m -th ordinary power to generate the m -th symbolic power. We use star configurations and sets of points in the projective plane to provide examples of ideals whose second symbolic defect is 1. (Received January 21, 2018)