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Jose Cogolludo*, C. Pedro Cerbuna 12, 50009 Zaragoza, Zaragoza, Spain, and **Jorge Martin-Morales** (jorge@unizar.es), Academia General Militar, Ctra. de Huesca s/n., 50090 Zaragoza, Zaragoza, Spain. *Curve invariants on quotient surface singularities and lattice counting problems.*

The purpose of this talk is to describe some invariants of curve singularities on normal surfaces, in particular quotient surface singularities, using \mathbb{Q} -resolutions. Such invariants allow for the computation of genus formulas for curves on weighted projective planes and log-canonical thresholds.

We will also show a numerical Adjunction Formula that can be used for the calculation of rational lattice point counting formulas and their Ehrhart quasi-polynomials. (Received August 10, 2015)