1121-05-204 **Bruno Benedetti*** (bruno@math.miami.edu), Department of Mathematics, 1365 Memorial Drive, Coral Gables, FL 33146, **Michela Di Marca** (dimarca@dima.unige.it), Dipartimento di Matematica, Via Dodecaneso, 35, 16146 Genoa, Italy, and **Matteo Varbaro**, Dipartimento di Matematica, Via Dodecaneso, 35, 16146 Genoa, Italy. *Regularity of complete intersections of lines.* Preliminary report.

In commutative algebra, Castelnuovo and Mumford introduced long ago a notion of 'regularity' for ideals of polynomials. In combinatorics one uses the word 'regularity' for graphs in which all vertices have the same degree. A priori these two integers are unrelated even if they happen to be called the same. It turns out that sometimes they do coincide. If A is an arithmetically-Gorenstein arrangements of lines in which all singularities are planar, and R is the Castelnuovo-Mumford regularity of the coordinate ring of A, we show that the dual graph of A is R-regular; or in other words, each line meets exactly R other lines of the arrangement. (Received July 18, 2016)