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Cedric Bentz, Marie-Christine Costa, Dominique de Werra, Christophe Picouleau, Bernard Ries* (bernard.ries@epfl.ch) and **Rico Zenklusen**. *Blockers and transversals*. Preliminary report.

Given an undirected graph $G = (V, E)$, a d -blocker is a subset of edges whose removal decreases the cardinality of a maximum matching by at least d . A d -transversal is a subset of edges which intersects with each maximum matching on at least d edges. We are in particular interested in finding minimum d -blockers and minimum d -transversals. First we will give some basic properties concerning these two notions. Then we present some complexity results and analyze special classes of graphs for which minimum d -blockers and/or minimum d -transversals can be found in polynomial time. (Received February 01, 2008)