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Fiumefreddo di Sicil, Catania, Italy. *Topology, intersections of modules and flatness.*

As it is well-known, multiplication by an ideal I does not commute with the intersection of a family of ideals. But, when the ideal I is flat and the family is finite, then multiplication commutes with intersection. We generalize this result by showing that finite families of ideals can be replaced by compact subspaces of a natural topological space. Several consequences of this fact will be presented. This talk is based on a joint paper with Dario Spirito. (Received February 02, 2016)