Matt Zaremsky* (zaremskym@gmail.com). Virtual splittings of RAAGs over abelian subgroups, and abstract commensurability.

A result of Groves and Hull says that a right-angled Artin group (RAAG) splits non-trivially as an amalgamated product over an abelian subgroup if and only if it does so in an "obvious" way, namely if and only if its defining graph has a separating clique. Using techniques involving the Bieri-Neumann-Strebel invariant, we show that an analogous statement is even true for arbitrary finite index subgroups of RAAGs. This has consequences for the problem of classifying RAAGs up to abstract commensurability and up to quasi-isometry. (Received July 18, 2017)