

mixed energy release

This is an effect found in a process $A + BC$ when the attacking species A is heavy. Because A is heavy the $A-B$ distance continues to decrease while the repulsive energy of $B-C$ is being released.

Source:

PAC, 1996, 68, 149 (*A glossary of terms used in chemical kinetics, including reaction dynamics (IUPAC Recommendations 1996)*) on page 174