



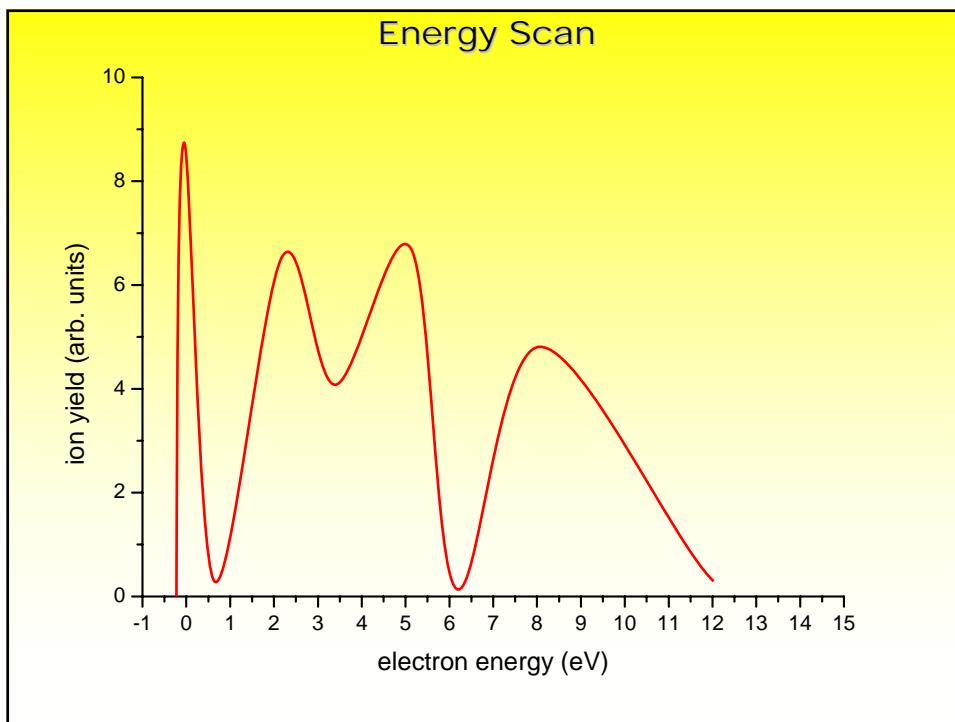
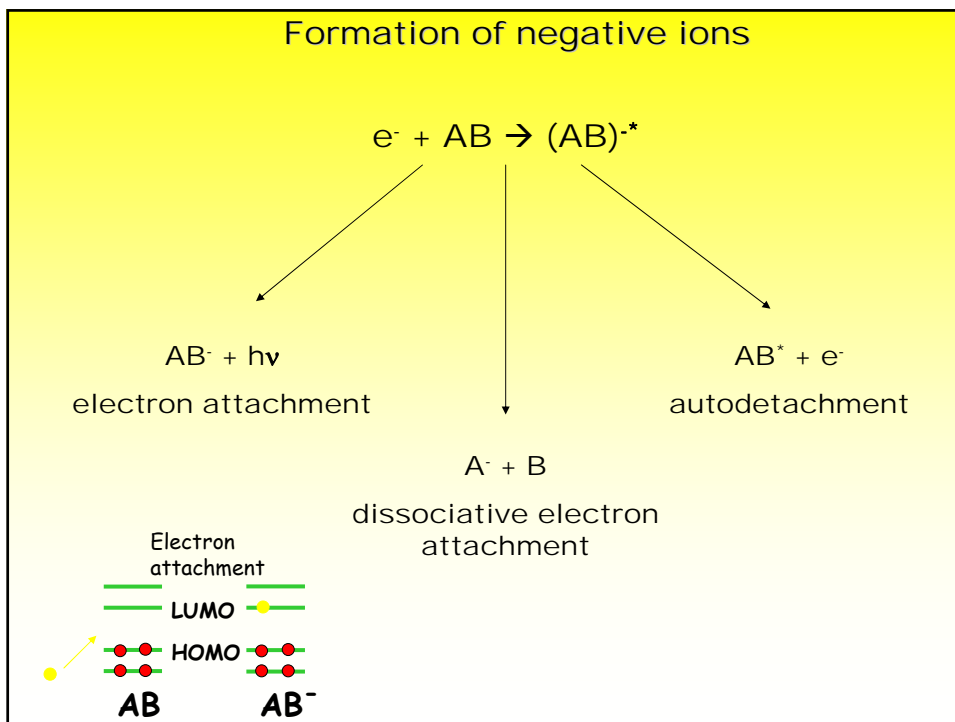
Dissociative electron attachment to gas phase explosives

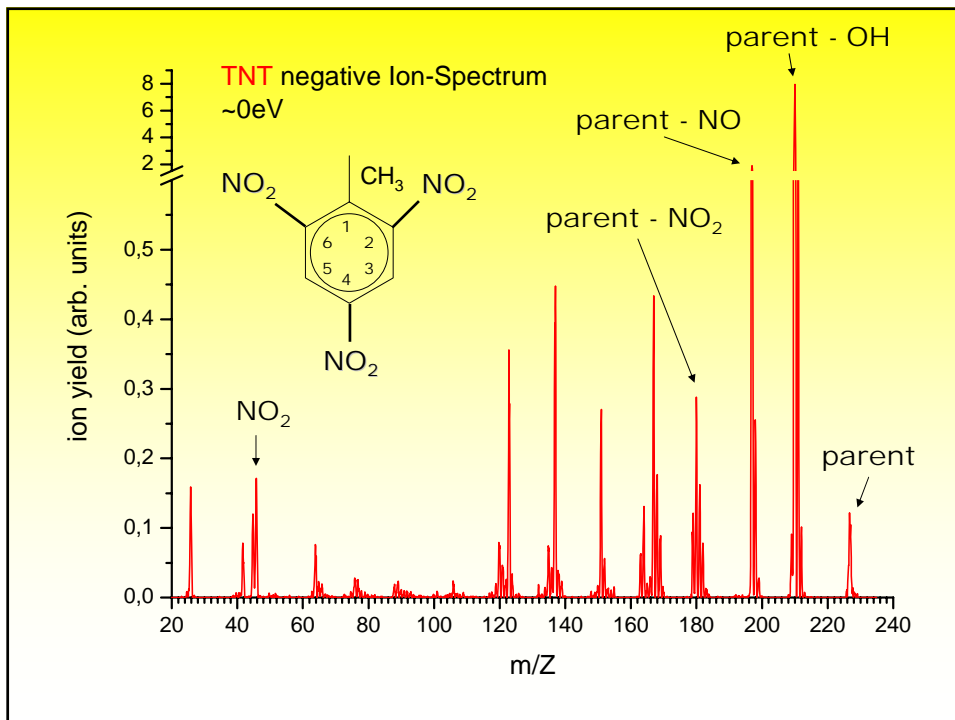
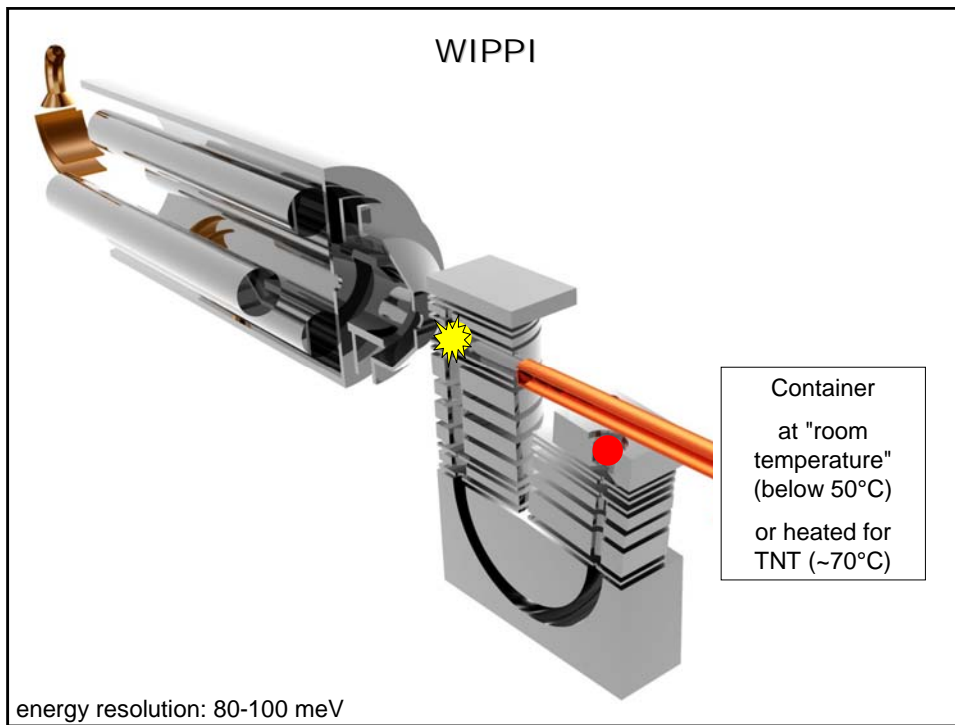
Philipp Sulzer
AG Märk/Scheier

Why did we start these measurements?



New method to detect explosives developed by the
British Detection Technology Department



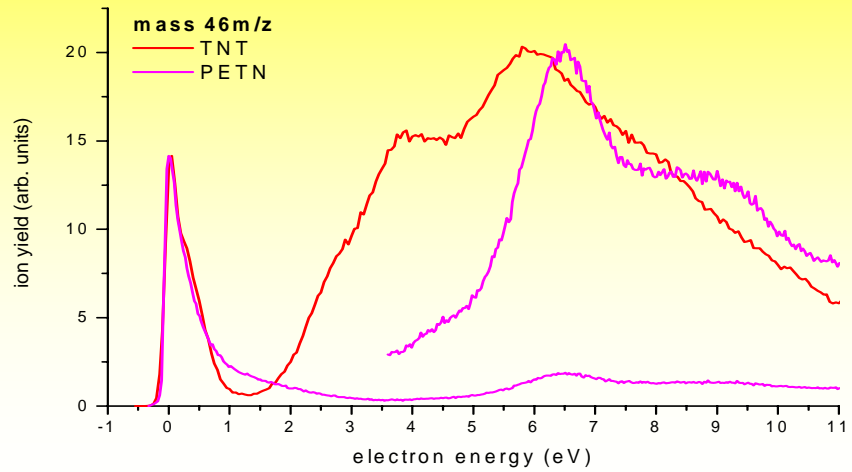




Pentaerythritol tetranitrate (PETN)

316 amu; $C_5H_8N_4O_{12}$

used in "Primacord"



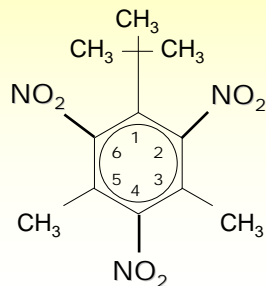
What about substances with a structure similar to TNT?



Musk Ketone

294amu

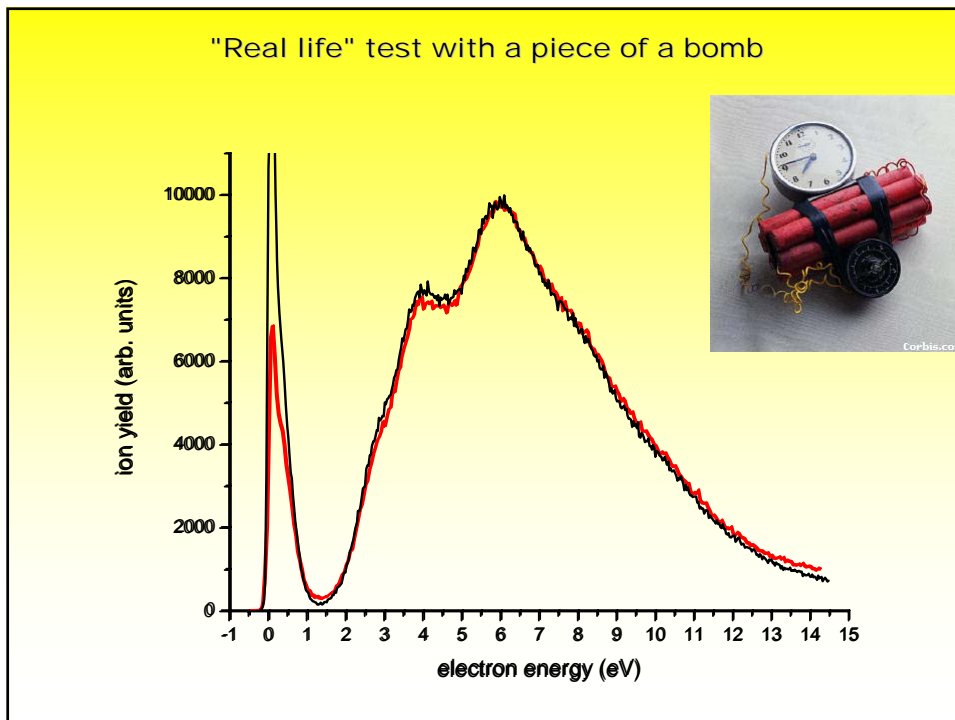
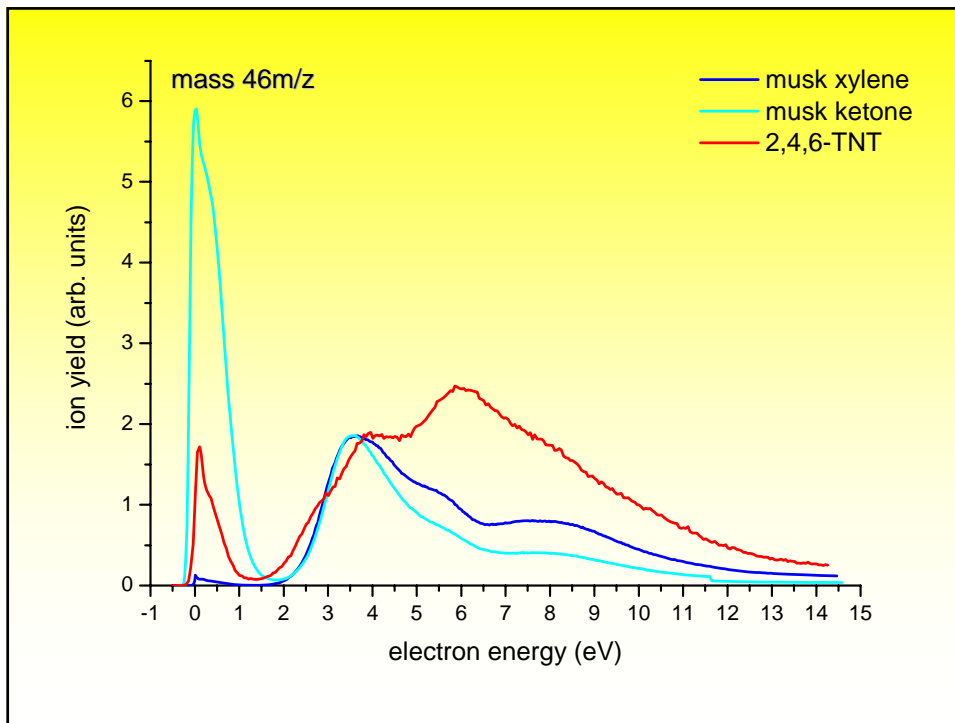
$C_{14}H_{18}N_2O_5$



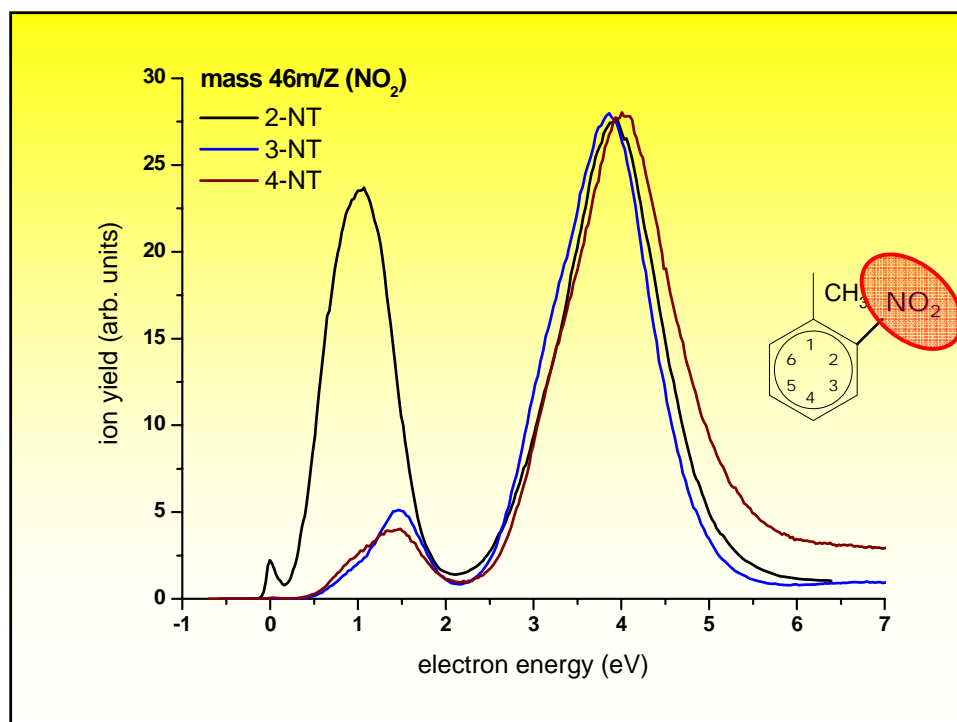
Musk Xylene

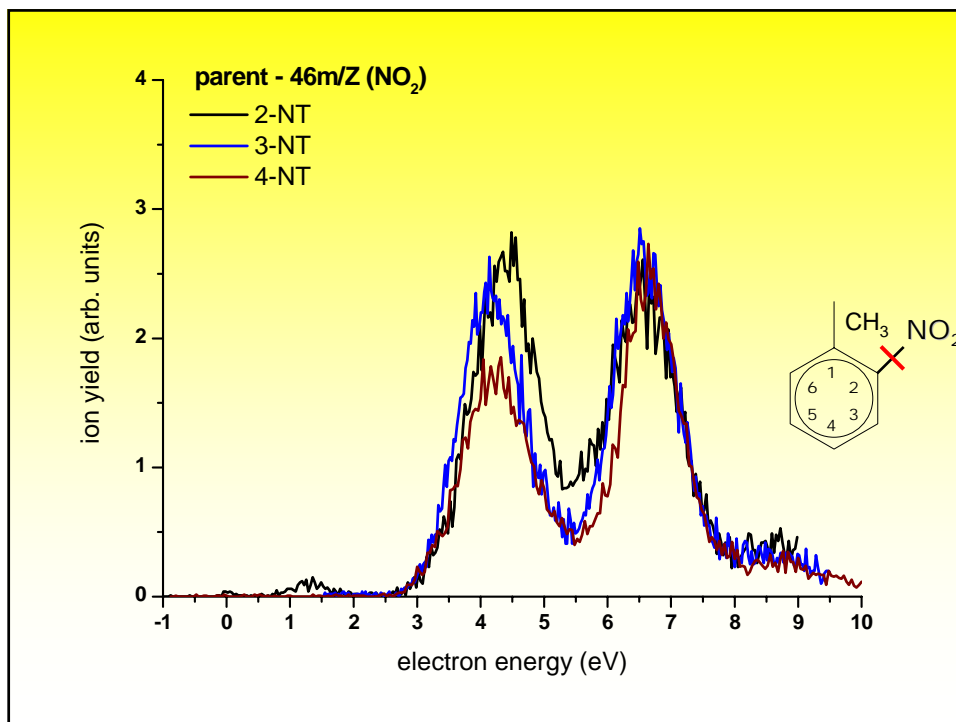
297amu

$C_{12}H_{15}N_3O_6$



What about isomers?





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