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Title: Hydrocarbon isotope detection by elastic peak electron spectroscopy

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Highlights

- PCVD hydrocarbon coatings containing protium or deuterium are analyzed via NRA, ERD, XPS and EPES
- EPES analysis with modern electron energy analyzer SPECS Phoibos 225 shows a clear signal from the hydrogen isotopes
- Different primary energies and scattering angles help to quantify isotope content from EPES spectra

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