Jakob Krause, 3134010 K 221 - MORRAMER- effect D lacio of resonance alsorption - natural linewidth - DOPPLER broadening: LORENTZ-profile convoluted with franklin = 6-ALMAN DOPPER-width >> natural width MODBANER affect: recoilless resonance absorption; for free atoms -> line chape shifted by read D - DELYE- WALLER - fector (= exp(- h2 (x2)) becreases with increasing Ex decreases with Temperature La gives "Indulity" of Moblano effect happening a Application of the Mosteruce effect -> determination of ZE of the Hyperfine-Shittings * Decay scheme of 5th 57 Co = to d

- isomeric shift: emission and alsophion Lo blines in the spectrum energy differ shiftly due to HFS -> resonance clip of L+D

10 42 1 1 1 1 2 = SP 45