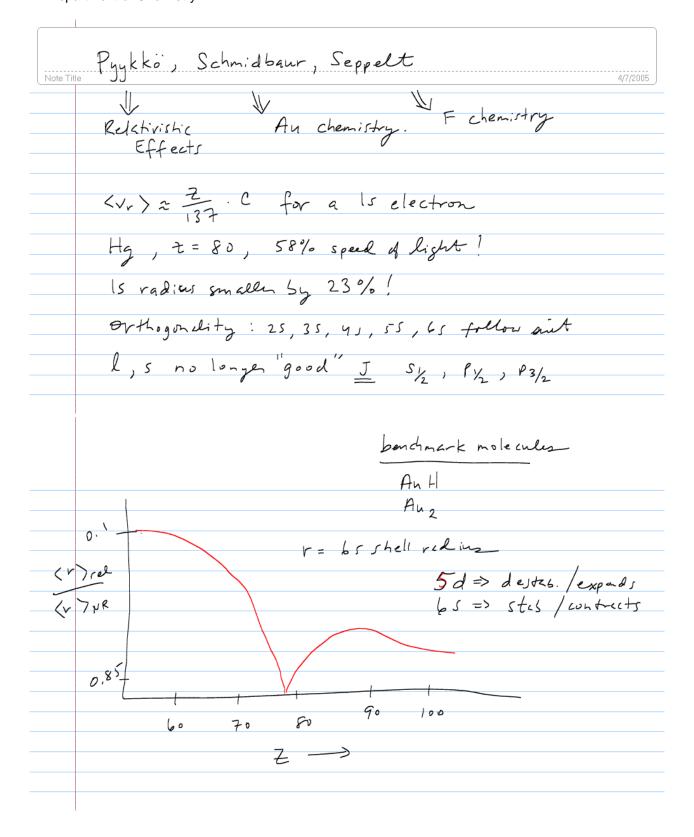
5.05 - Principles of Inorganic Chemistry III - Spring 2005Professor Christopher Cummins, Copyright 2005.MIT Department of Chemistry



	Observables affected by Relativity:
-	TP: 7.057 NR An atom 9.197 R 9.226 exp
	EA: 1.283 NR half the EA 2.295 R due to relativity! 2.309 exp Similar to indine! the as a pseudo-haloger fermi gives yellow SE yellow SE color Line
-	Closed - Shell Interactions Ant dioins dion Ir a-An-PR3
	Tet S2 ion 2.8- 3.0. Aurophilicity " dispersion, VDW interaction, "Aurophilicity"
	comparable to strong H bond.

Pyykkö p	redicts WAu12 triply otabilized!
Au, i cosquelron	
2 An bs orbita	Is: ag + tin + hg + tzn 11 surface sta
	10 CR-
tructure	W: s, p, d obago 18 e rule! O Xe Rton
N-Ay 2.68 A	osap 18 e me i 10 xe eton
Au-Ay 2.81 Å	20 Au - Au naire 1
	20 Au-An pairs 1 100 Kl md-1 × 20
° 0 1/	
Schmidbaur : NH3 (lig.)	+ O Au L], BFy L= PPh3
NH2 (0:0)	auration + O[AuL]_3 BFy L=PPh_3 (analog of Mego+) slurry
NH3 (liz.)	+ O[AuL], BFy L=PPhz

