Authors	Energy Range (eV)	Technique	Temperature (K) RT unless specified	Sample				Data Presentation	Remarks
				Film	X-tal	Bulk	Prep		Yb
Mul65	0.3-5	Refl		x				R	reflectance measured through window using existing n for sapphire
Sch66	0.35-5	Trans, Refl		x				R	
GZF67	167-187	Trans		x				μ	absorption measurements
Mul67	0.3-4.0	Trans, Refl		x				R; KK: $\varepsilon_1,\varepsilon_2,\sigma$	
ZFG67	60-520	Trans		x				μ	absorption measurements
ES70	1.0-11.6	Refl		x			In	R; KK: $\varepsilon_1,\varepsilon_2,\sigma,\mu$	
BBS71	1-50	Trans		x				$Im(\varepsilon^{-1})$	energy loss spectroscopy
CK73	0.83-10.33	Trans		x				μ	absorption measurements
TC73	175-196	Trans		x				μ	energy loss spectroscopy
Pet74	1.55-6.2	Trans, Refl		x				T,R,σ	
Kun75	50-550			x				μ	absorption measurements with synchrotron radiation
CGT76		Trans		x					energy loss spectroscopy
KN77									review paper
Liu77									review paper energy band structure, optical and photoemission properties
Tra77	22-39	Trans	vapor						absorption measurements of atomic vapor with synchrotron radiation
Cle Pvt	0.5-3	Trans, Refl		x				R,σ	

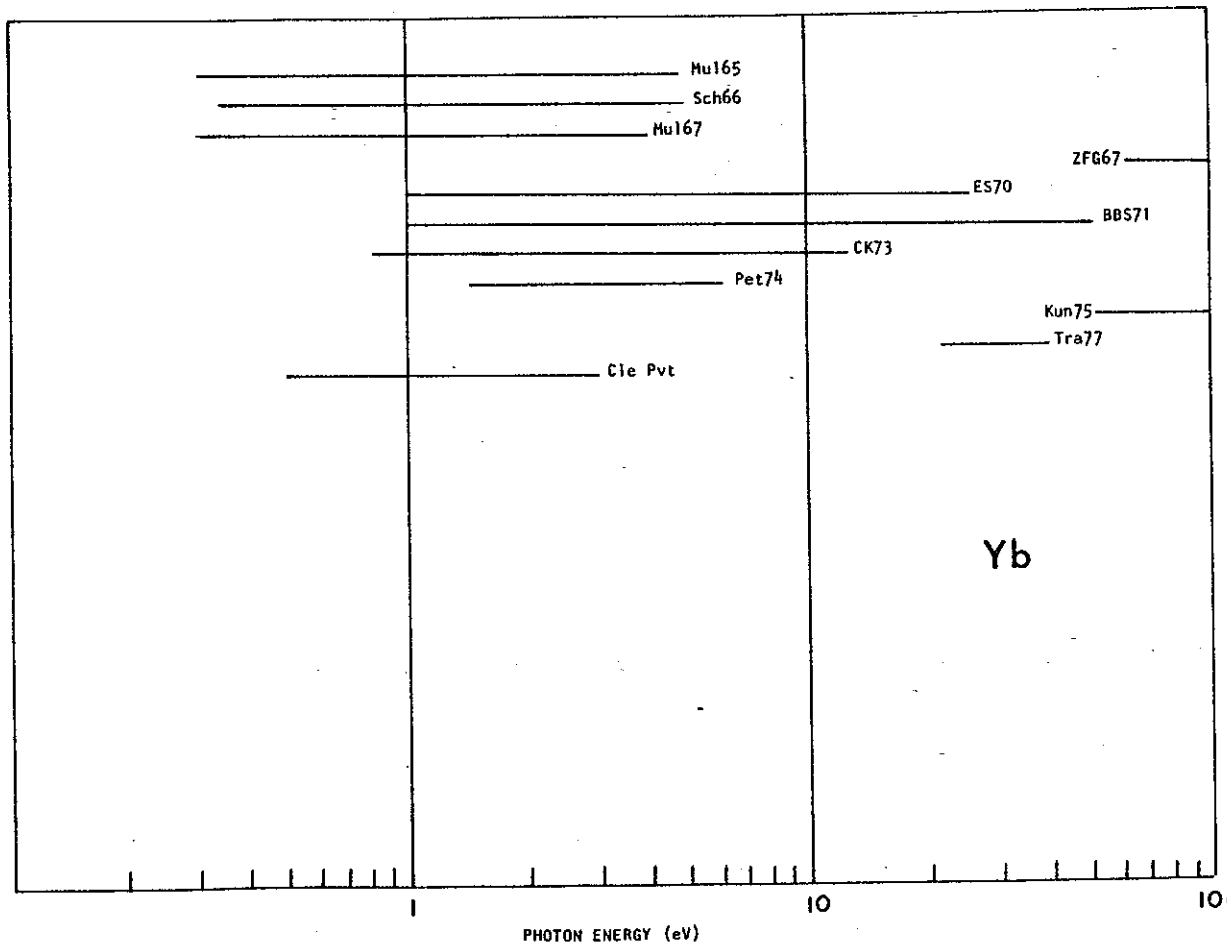

Fig. 83 Survey of available data on Yb.

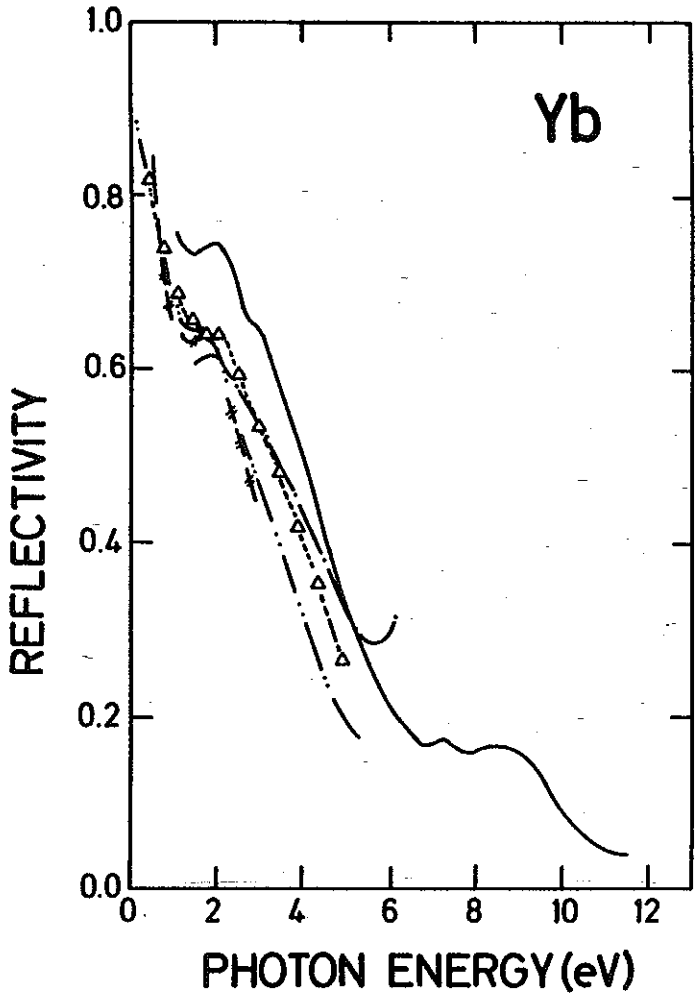

Fig. 84 Reflectivity for Yb. Polycrystalline results by ES70 (——); Cleyet (pvt. comm. with Pet74) (—‖—); Pet74 (—·—); Mul67 (—··—); and Sch66 (ΔΔΔ).

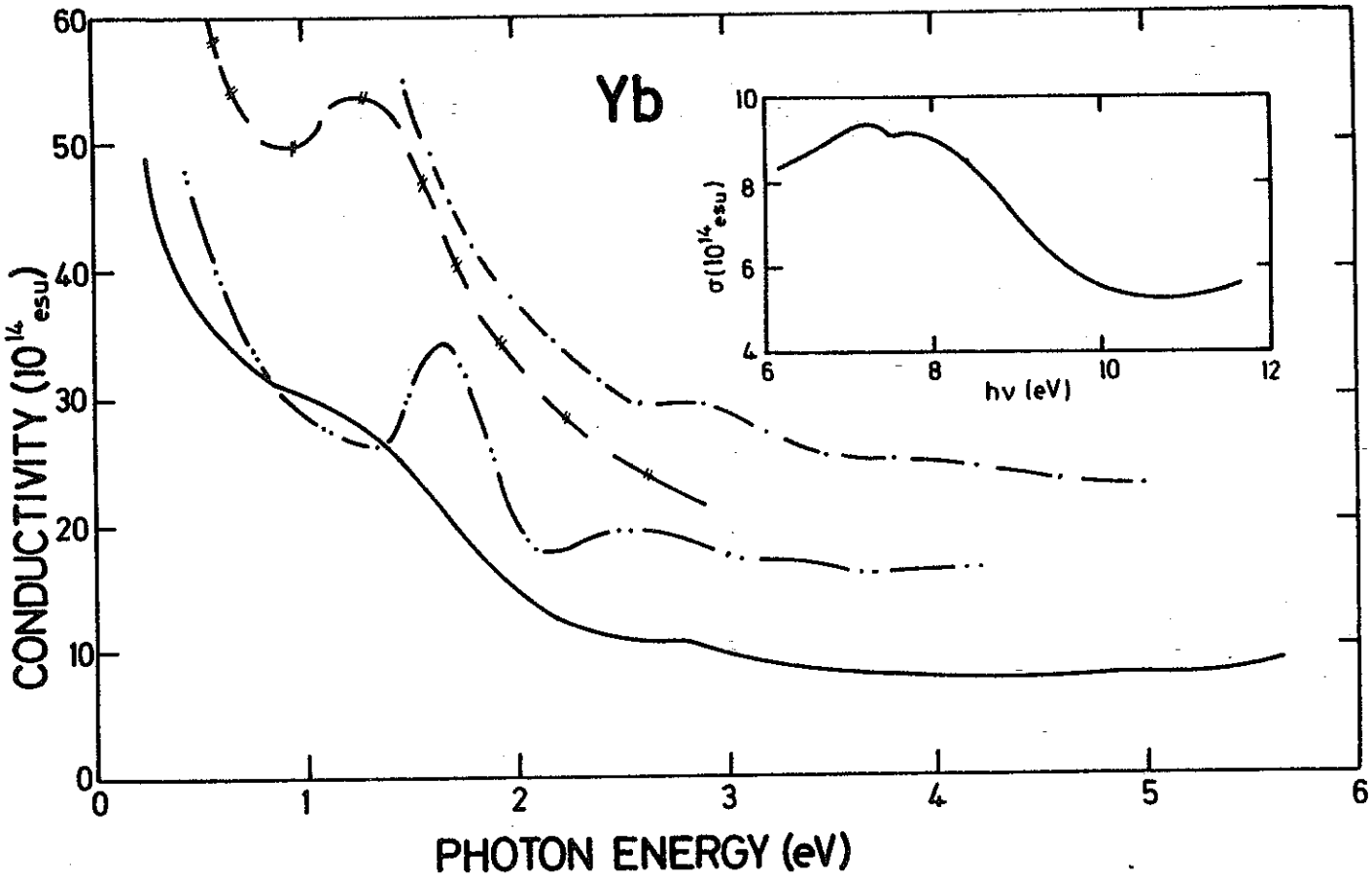

Fig. 85 Optical conductivity for Yb. Polycrystalline results by ES70 (——); Cleyet (pvt. comm. with Pet74 (—‖—); Pet74 (—·—); and Mul67 (—··—).

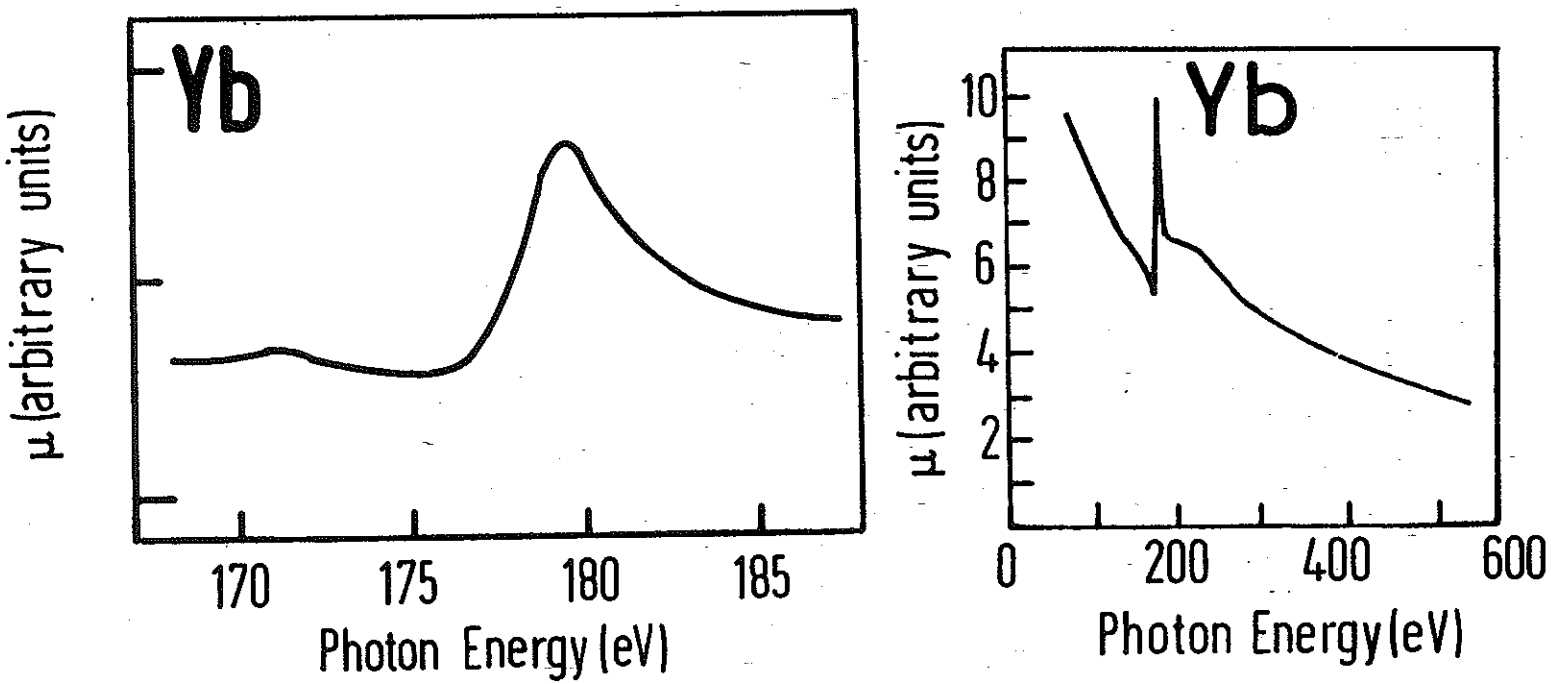

Fig. 86 Absorption coefficient of Yb. FZG67 show fine structure below the onset of the large maxima. Fine structure is interpolated by ZFG67 in the expanded energy range.