

| Authors | Energy Range (eV) | Technique | Temperature (K) RT unless specified | Sample | | | | Data Presentation | Remarks Nd |
|---------|-------------------|-------------|--|--------|-------|------|------|----------------------------|--|
| | | | | Film | X-tal | Bulk | Prep | | |
| Ker57 | 1.41-3.14 | Trans, Refl | | x | | | | R, n, μ | |
| FZG67 | 109-122 | Trans | | x | | | | μ | absorption measurements |
| ZFG67 | 50-520 | Trans | | x | | | | μ | absorption measurements |
| HRS70 | 100-180 | Trans | | x | | | In | μ | absorption measurements with synchrotron radiation |
| Pet72 | 1.55-6.2 | Trans, Refl | | x | | | | T, R, σ | |
| ZTK72 | 0-50 | | 1123 | x | | | | $\text{Im}(\epsilon^{-1})$ | energy loss spectroscopy |
| KN73 | 1.13-4.43 | Ellips | | | | x | | n, k, σ | |
| TC73 | 114-150 | | | x | | | | μ | energy loss spectroscopy |
| Kun75 | 50-550 | | | x | | | | μ | absorption measurements with synchrotron radiation |
| BKB76 | 1.92 | | >1000 | | | | EP | ϵ_N | emissivity |
| KN77 | | | | | | | | | review paper |
| Liu77 | | | | | | | | | review paper covering band structure, optical and photoemission properties |

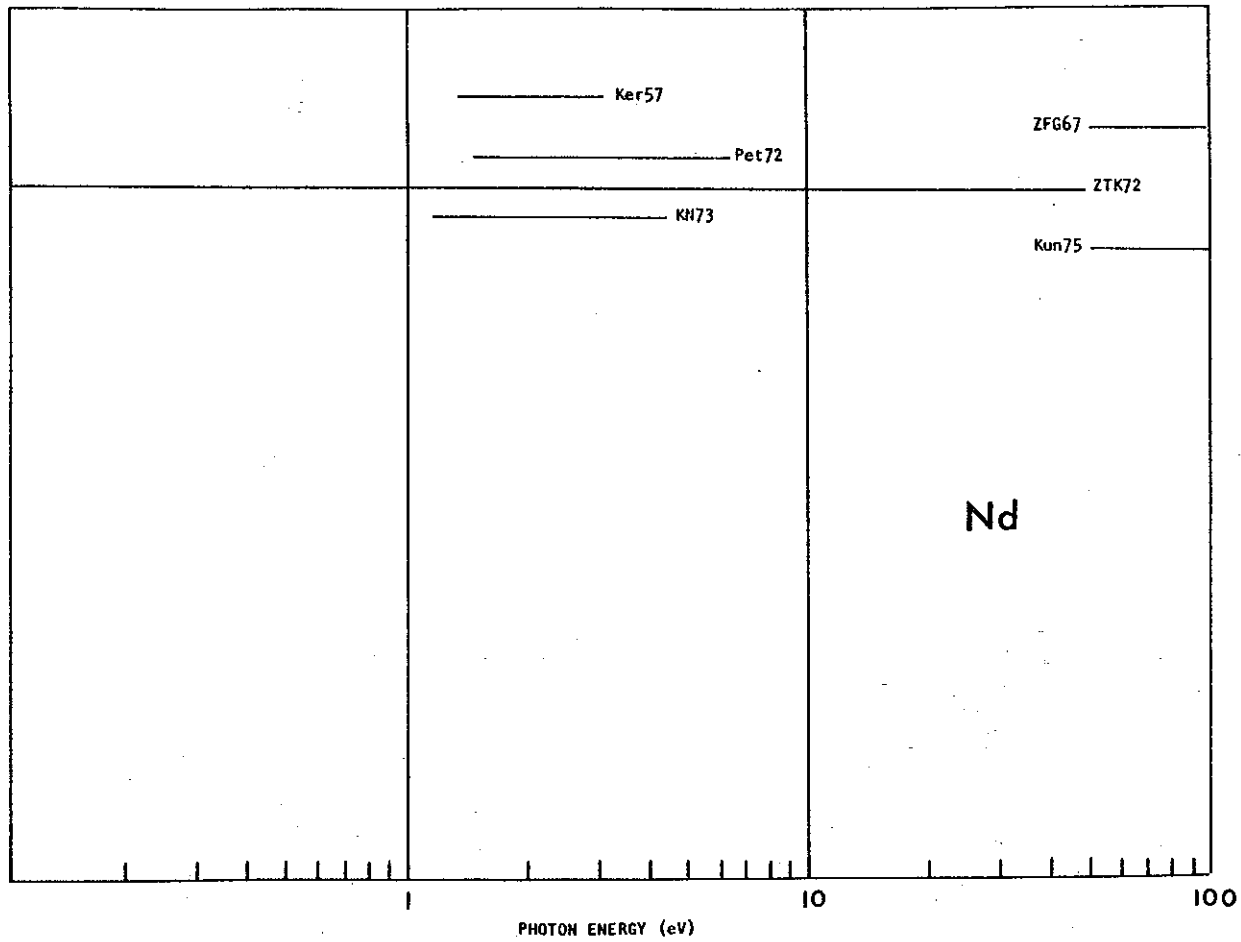


Fig. 41 Survey of available data on Nd.

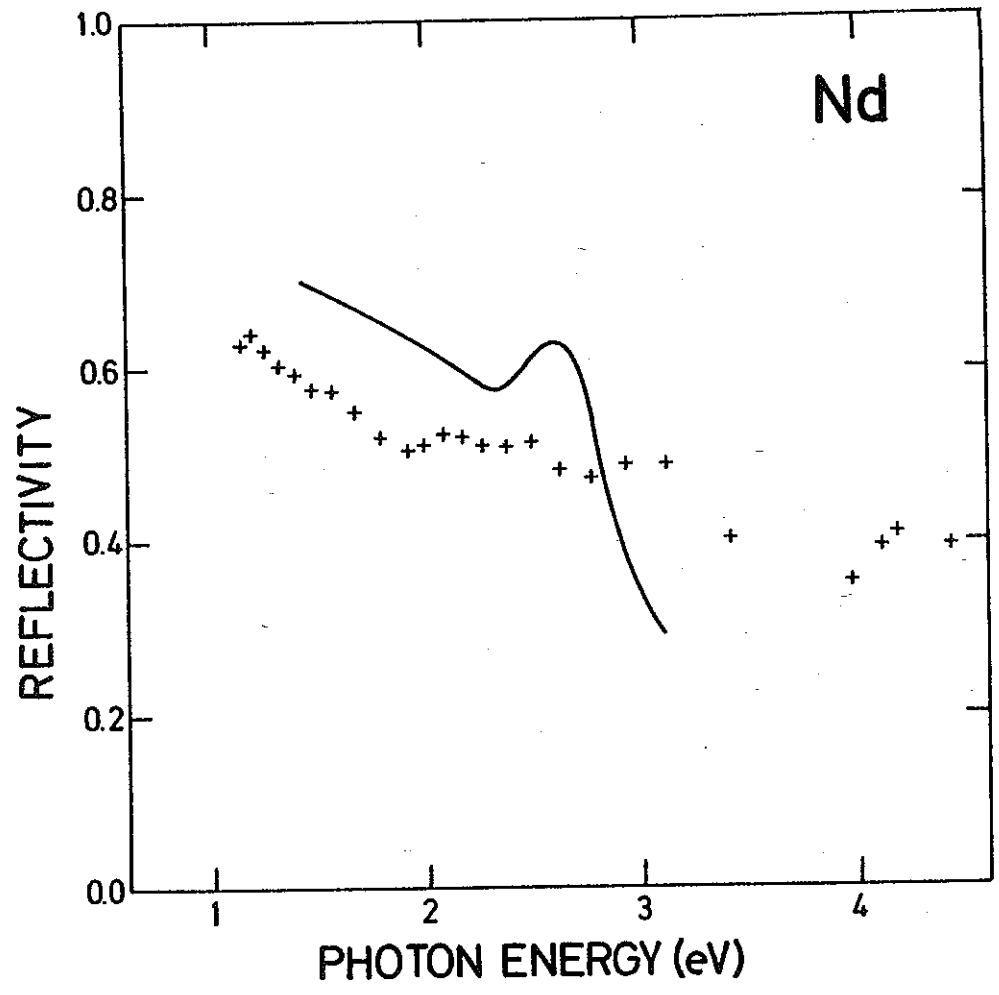


Fig. 42 Reflectivity of Nd. Polycrystalline results by KN73 (+++) and Ker57 (—).

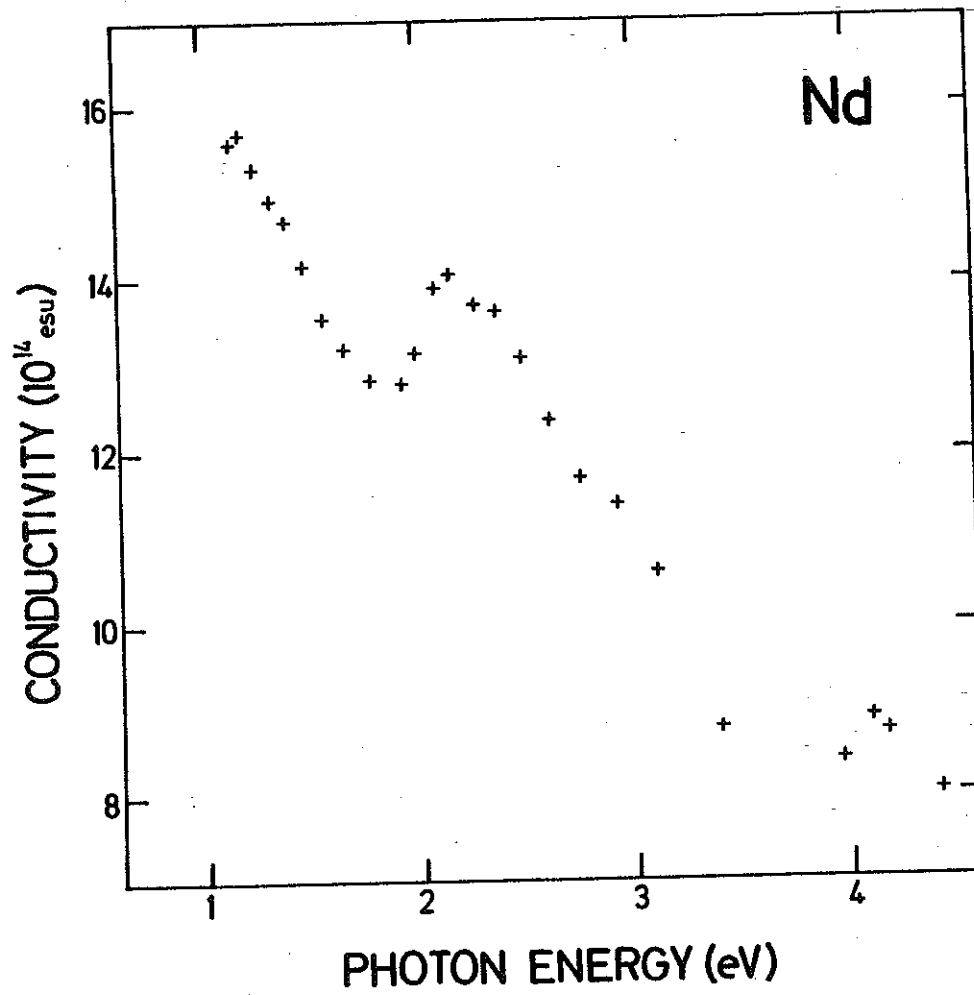


Fig. 43 Optical conductivity of Nd. Polycrystalline results by KN73.

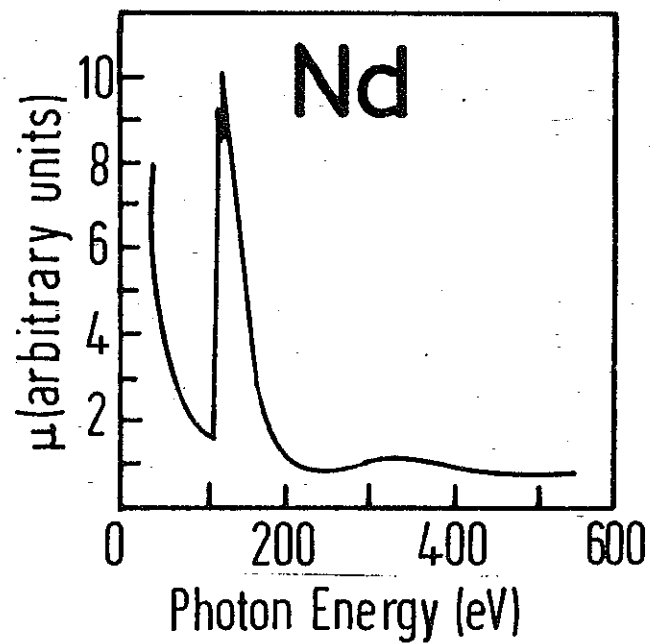
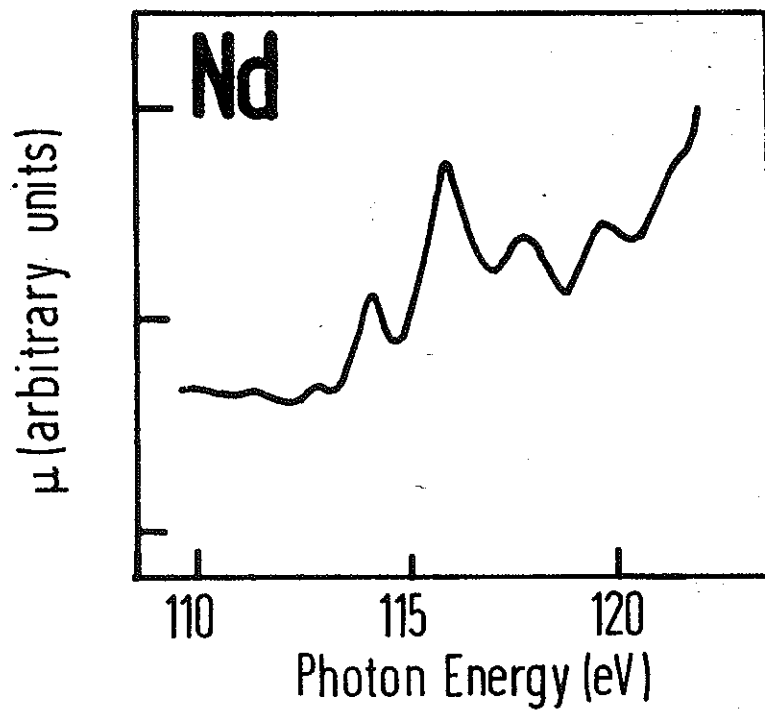


Fig. 44 Absorption coefficient of Nd. FZG67 show fine structure below the onset of the large maxima. Fine structure is interpolated by ZFG67 in the expanded energy range.

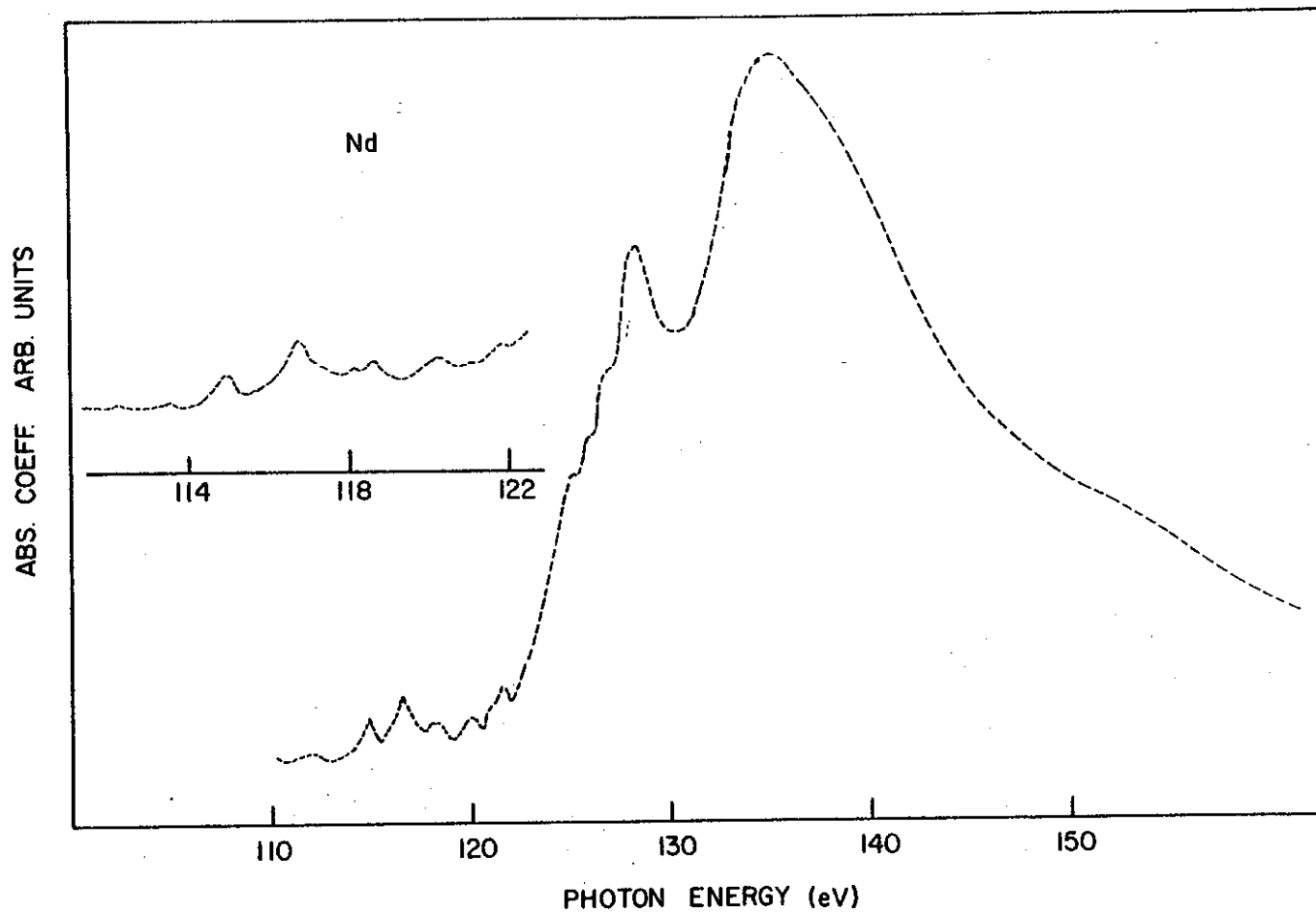


Fig. 45 Absorption coefficient of Nd for $110 \leq h\nu \leq 170$ eV. Results by OL81.