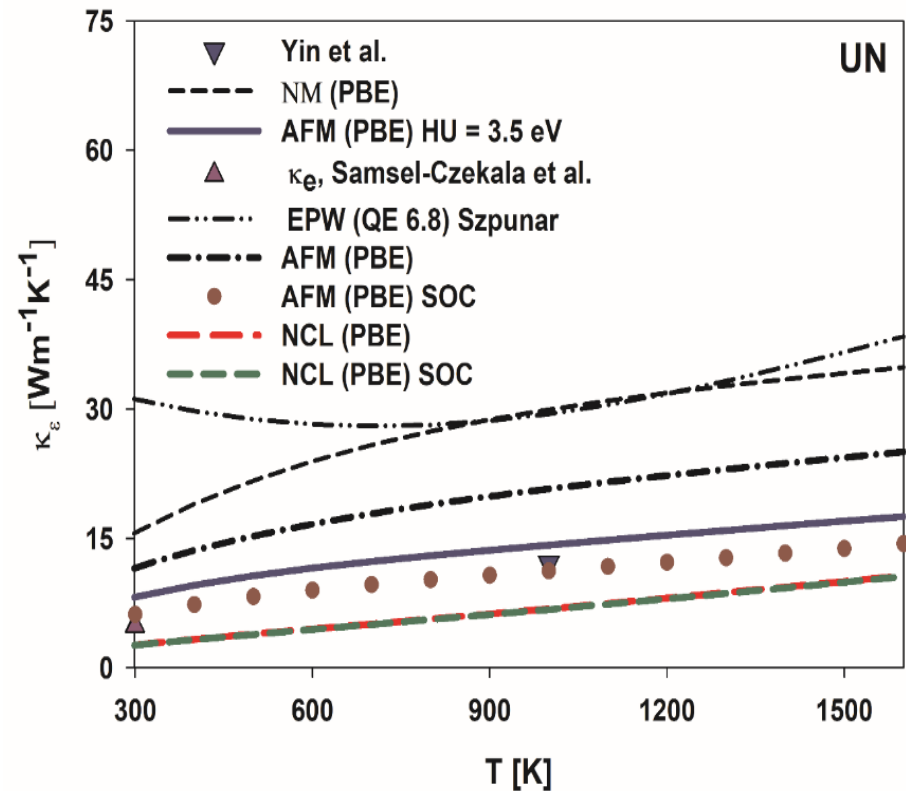
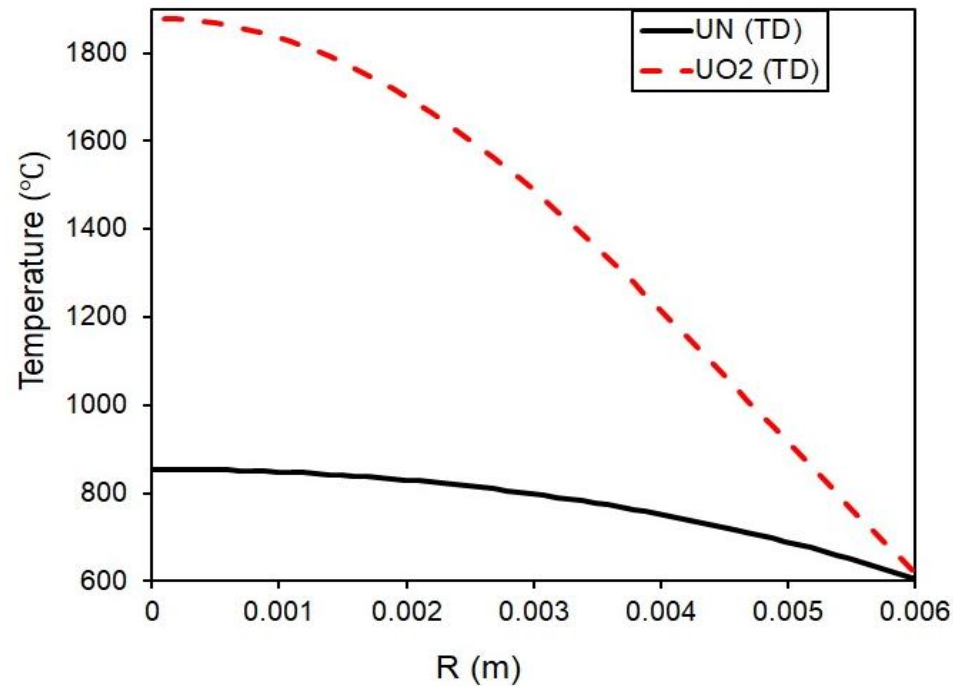




# Investigating the UN using QHA within DFT

Barbara Szpunar

<http://www.barbara-research.ca/PUBLICATIONSWEB.htm>

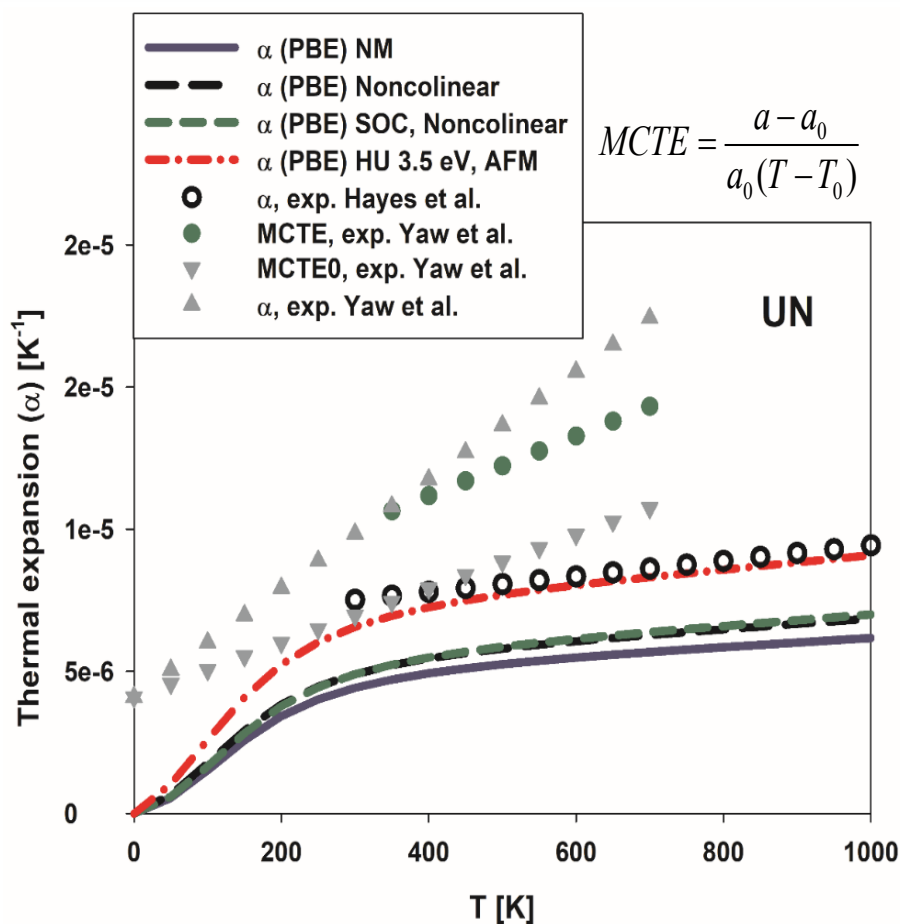


Szpunar B., Dudarev S.L. *Electronic thermal conductivity of UN revisited*, J. Mod. Phys, 17 (2026) 940-952.

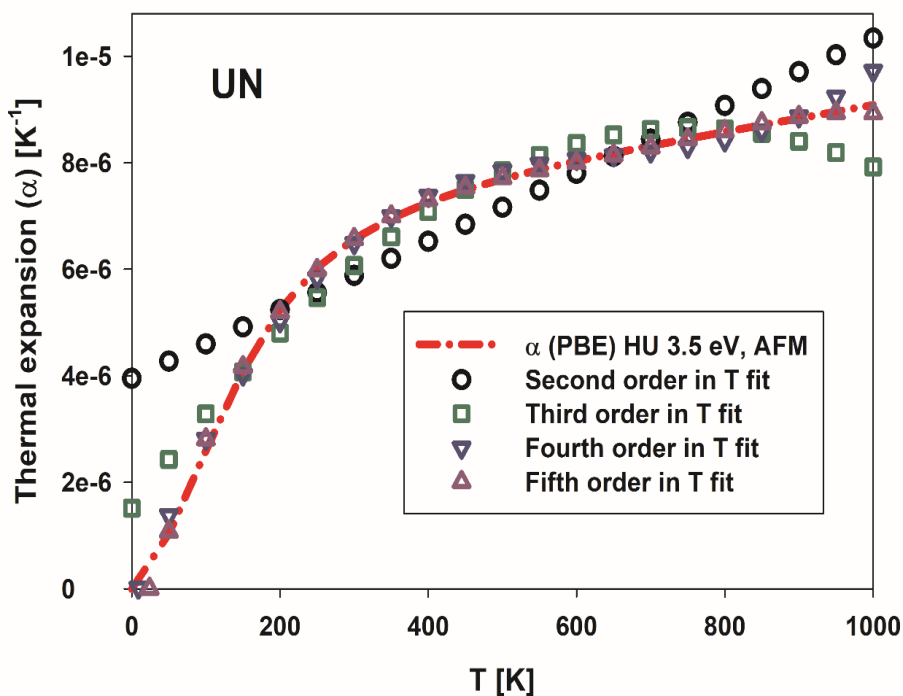




# THERMAL EXPANSION, UN



Szpunar B., Dudarev S.L. J. Mod. Phys, 17 (2026) 940-952.



$$\alpha = a^{-1} da / dT$$

$$\alpha = (-5 \times 3.7582125 \times 10^{-17} T^4 + 4 \times 1.2727522 \times 10^{-13} T^3 - 3 \times 1.6961513 \times 10^{-10} T^2 + 2 \times 1.1846754 \times 10^{-7} T - 5.3854652 \times 10^{-6}) / a$$