

Photonuclear Evaluations Benchmark Testing

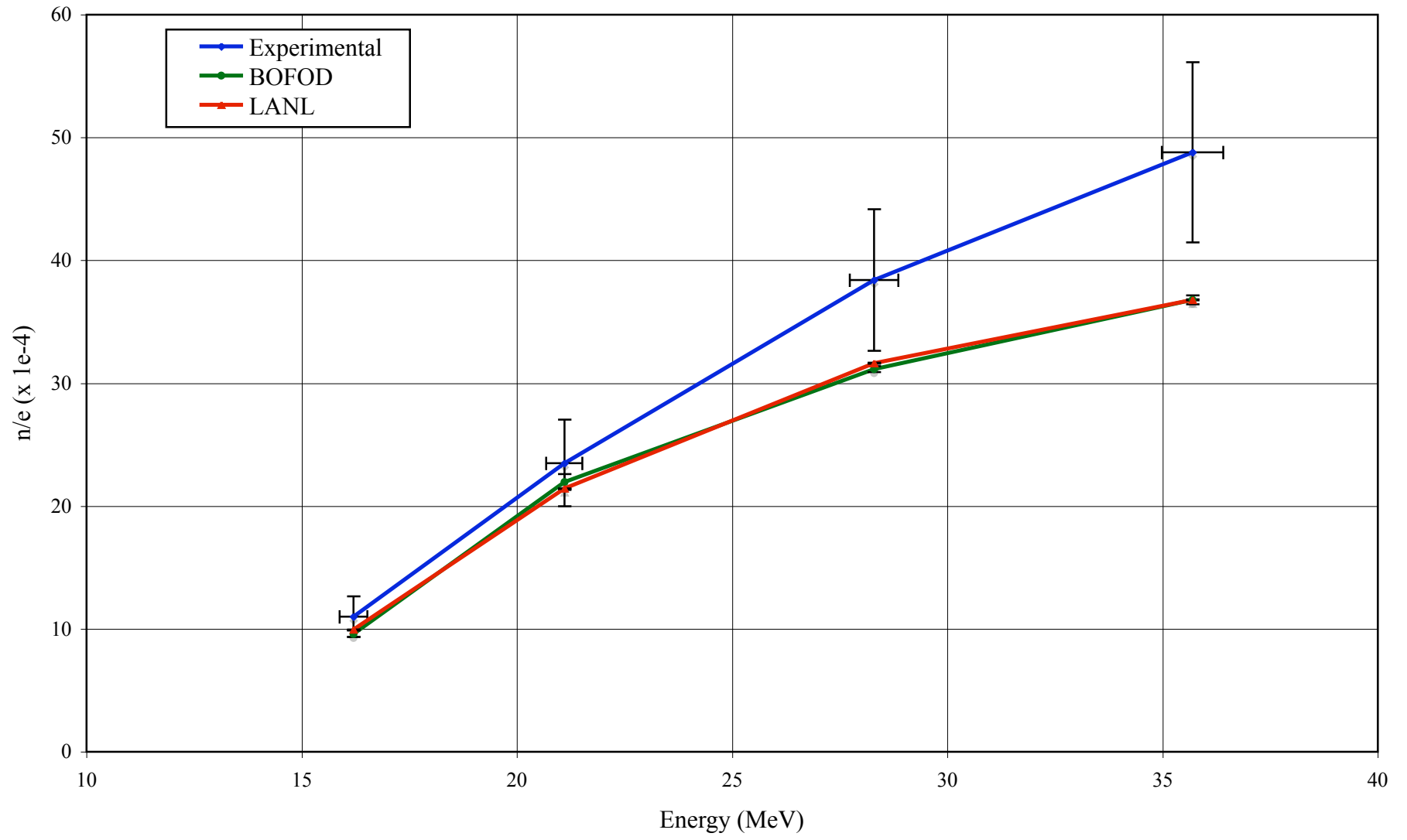
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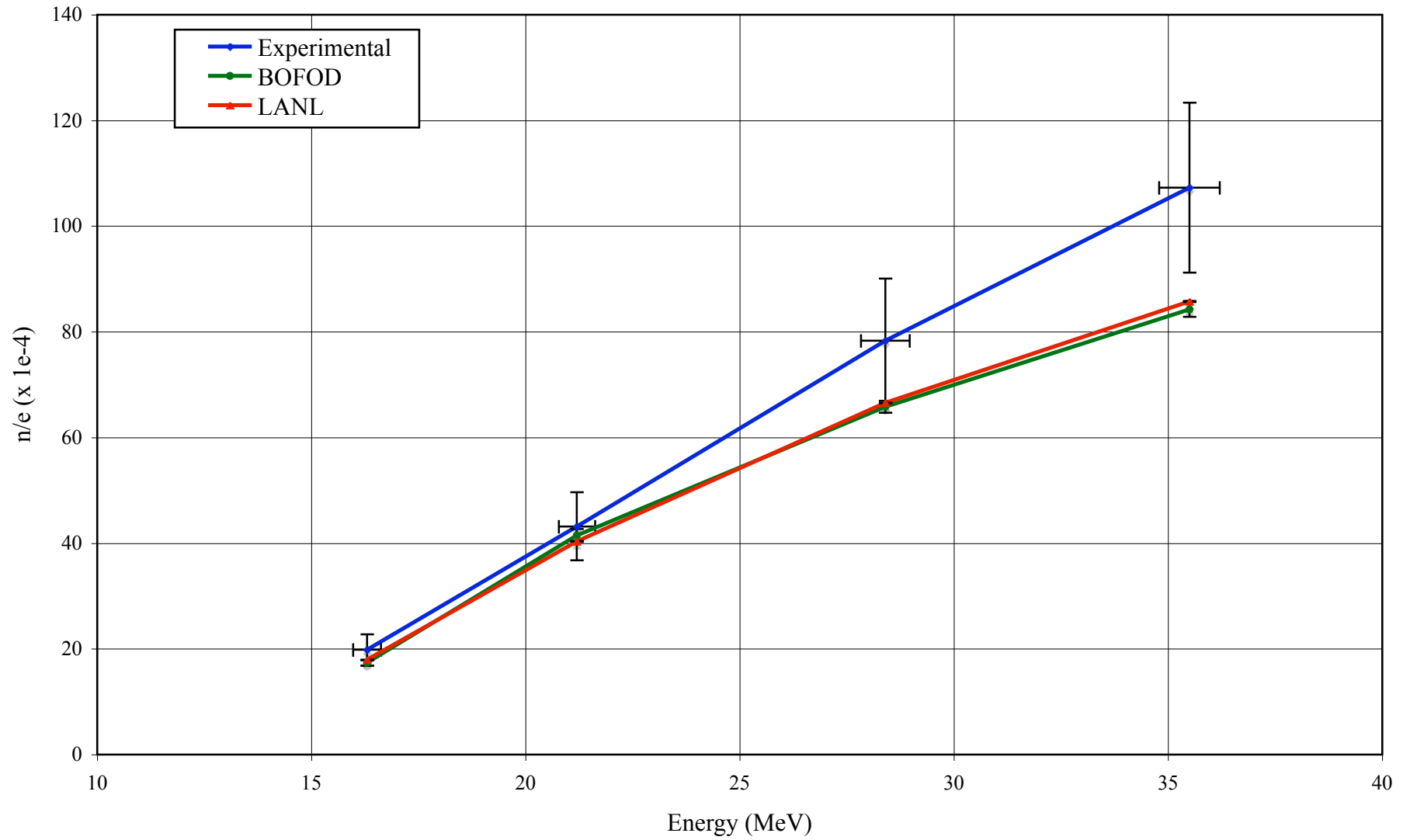
Benchmark Testing

- Comparisons to Barber & George uranium experiments
 - Based on Young et al. new U-235 & U238 evaluations
 - Compared to experiment and IAEA (BOFOD) evaluations
- Review of previous testing
 - Part of original MCNP photonuclear implementation work
 - See LA-13744-T and NSE Vol 144 pp 157-173 & 174-189 (2003)
 - Testing based on IAEA (LANL) evaluations of 12 materials
 - Comparison to Barber & George experimental data (NSE)
 - Comparison to Swanson calculated data (Thesis)

Neutron Yields For Electrons Bombarding A 0.3256 cm Thick Uranium Target



Neutron Yields For Electrons Bombarding A 0.6554 cm Thick Uranium Target



Neutron Yields For Electrons Bombarding A 0.9821 cm Thick Uranium Target

