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Intrinsic and extrinsic size in metallic glasses

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Stellingen

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INTRINSIC AND EXTRINSIC SIZE EFFECTS OF METALLIC GLASSES

Oleksii Kuzmin, 21 March 2014

1. The smaller, the better? (J.Th.M. De Hosson)
2. Understanding mechanical properties of MGs at nanoscale is a high impact issue of material research.
3. The truth holds only at boundaries.
4. Tension and compression experiments allow to separate intrinsic size effects from extrinsic. (Chapter 6)
5. The transition threshold in mechanical response of metallic glass depends on the initial structure and heat treatment. (Chapter 7)
6. Various methods of mechanical testing are necessary for revealing both intrinsic and extrinsic size effects.
7. Starting at a specimen of a certain diameter a metallic glass exhibits a change in deformation behaviour from brittle to ductile behaviour.
8. Consciousness does not have any bridge to unconsciousness.
9. “Mens sana in corpore sano” but not vice versa.
10. Life exists only in present.