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Ab-initio multi-string Frenkel-Kontorova model for a $b=a/2[111]$ screw dislocation in bcc iron

Mark Robert Gilbert, Sergei L Dudarev

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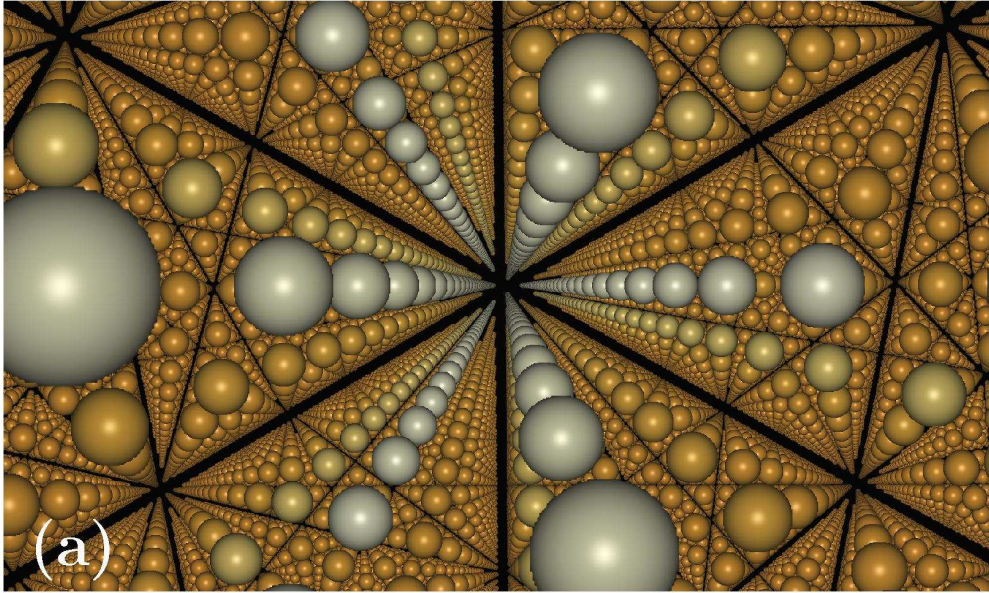


***Ab-initio* multi-string Frenkel-Kontorova model for a $b=a/2[111]$ screw dislocation in bcc iron**

Journal:	<i>Philosophical Magazine & Philosophical Magazine Letters</i>
Manuscript ID:	TPHM-09-Jan-0009.R2
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Complete List of Authors:	Gilbert, Mark; UKAEA Fusion Association; Oxford University, Materials Dudarev, Sergei; EURATOM/UKAEA Fusion Association, Theory and Modelling
Keywords:	computer simulation, dislocation theory
Keywords (user supplied):	core structure, bcc iron, Frenkel-Kontorova
<p>Note: The following files were submitted by the author for peer review, but cannot be converted to PDF. You must view these files (e.g. movies) online.</p> <p>screw_core_structure6_submission.tex</p>	



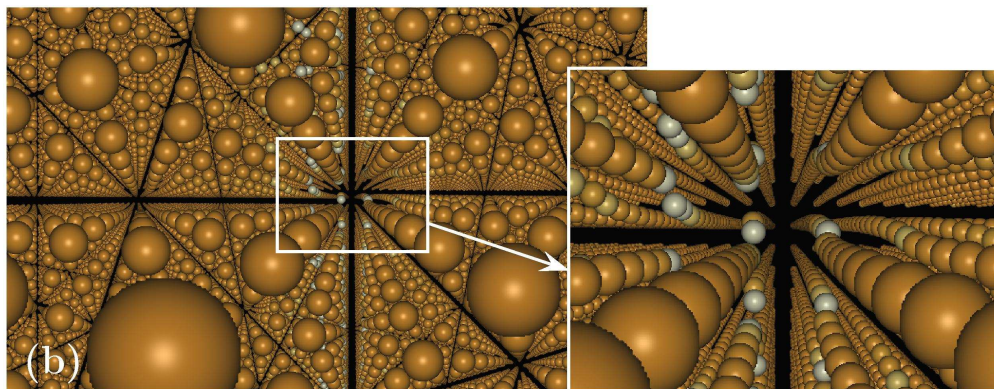
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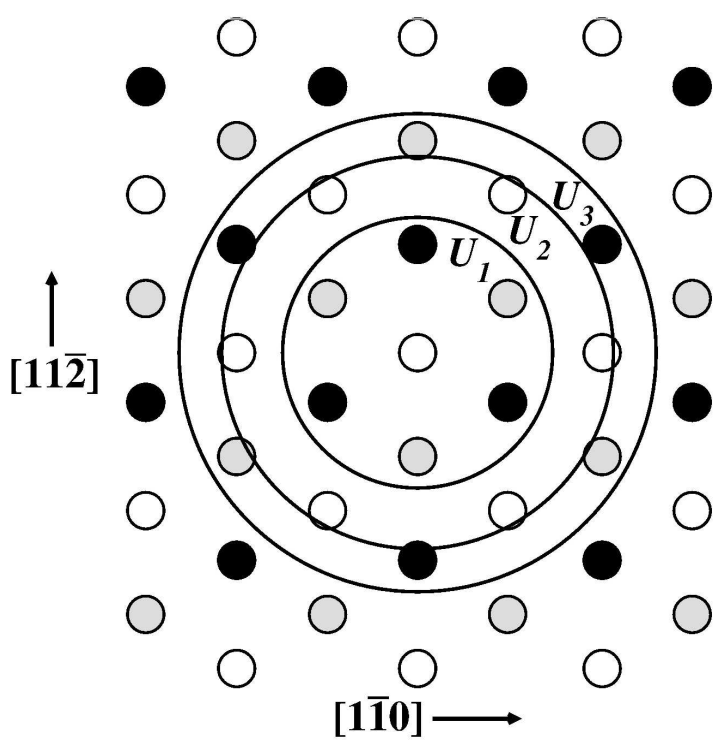
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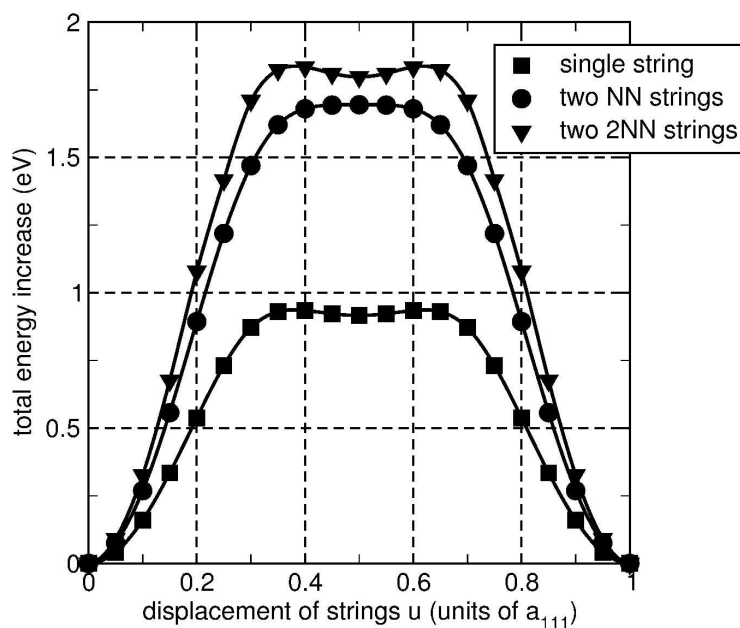
Peer Review Only

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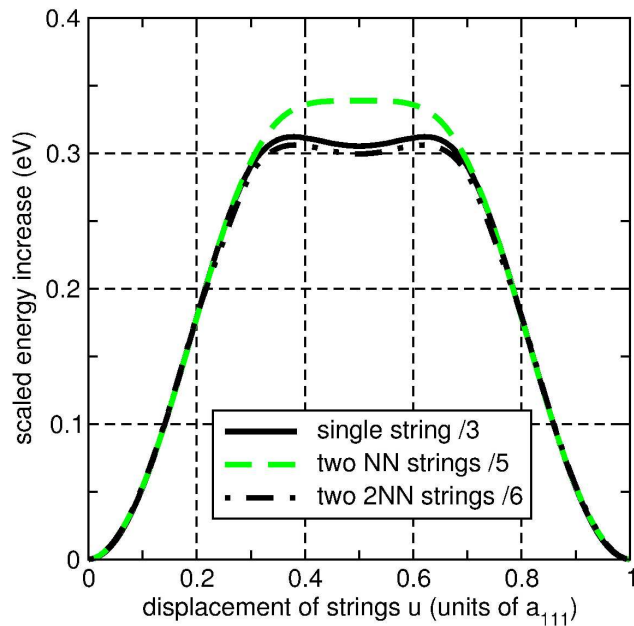
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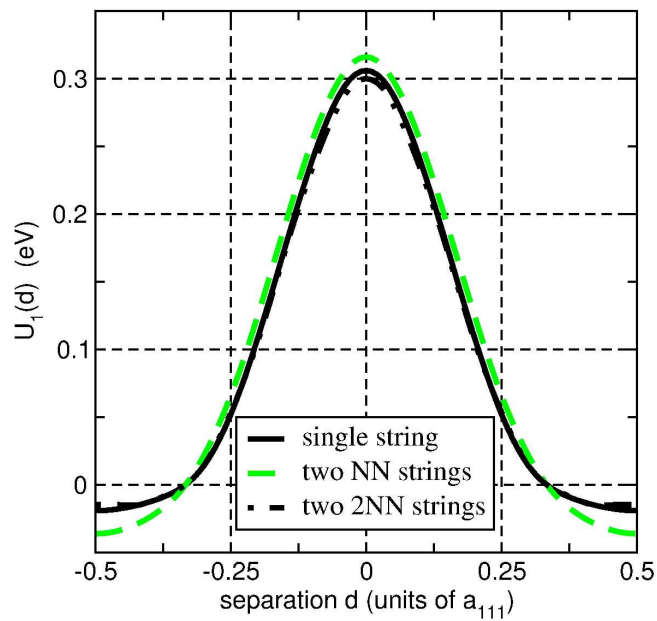
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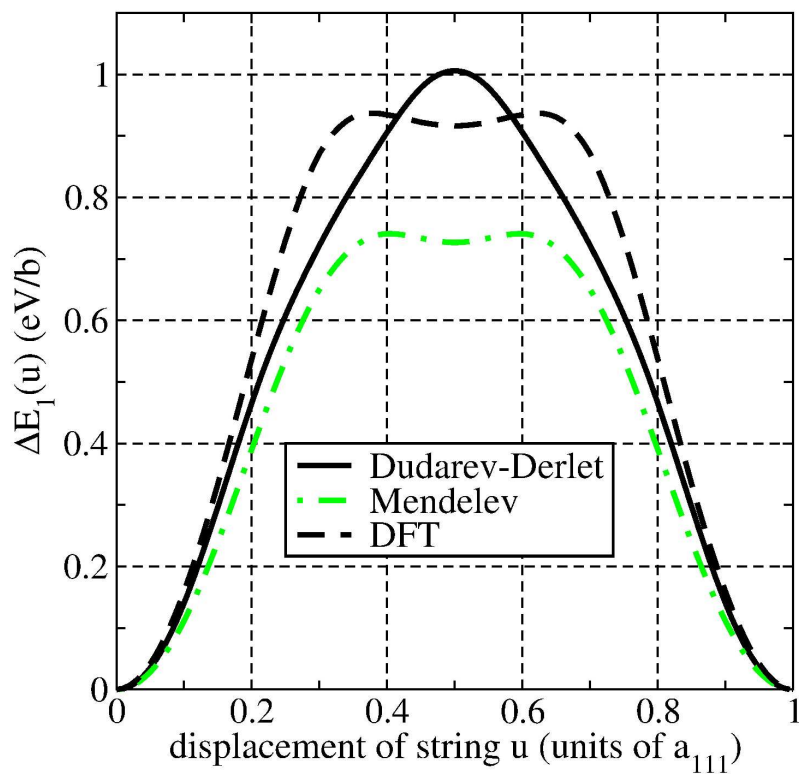
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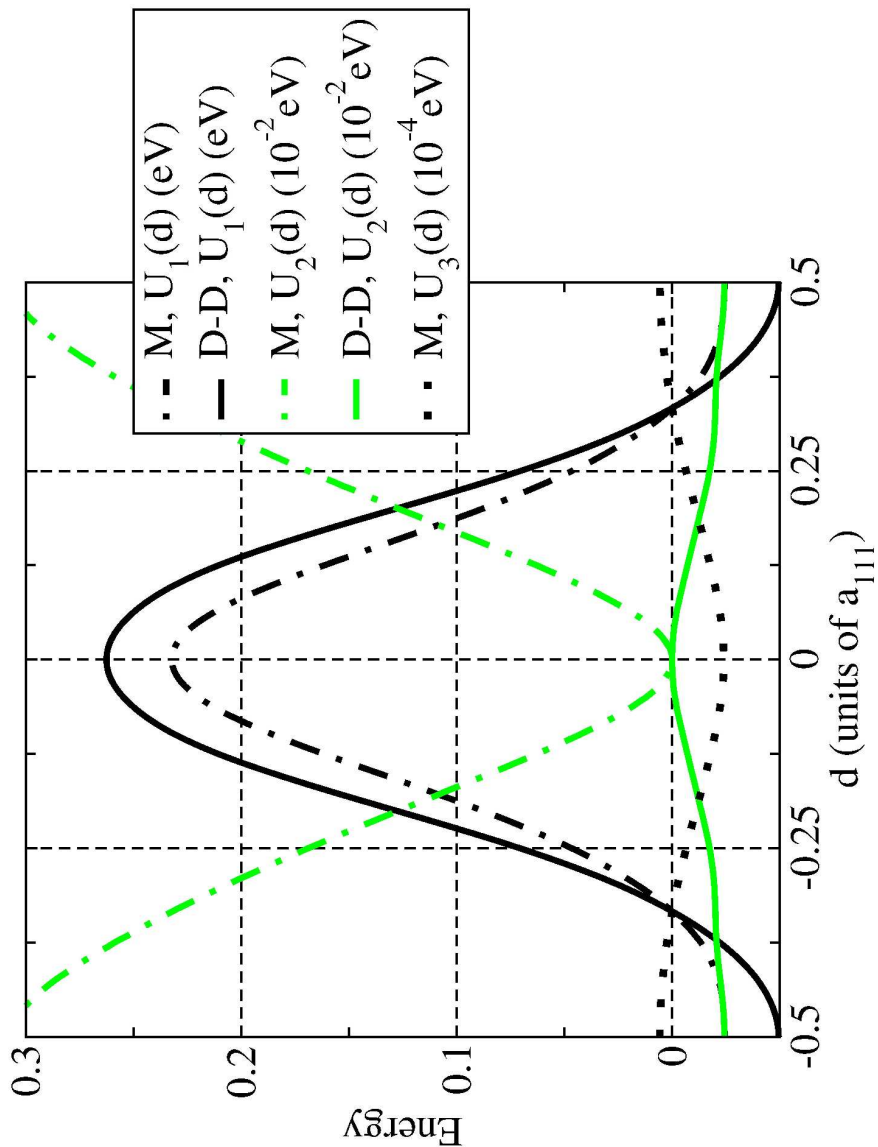
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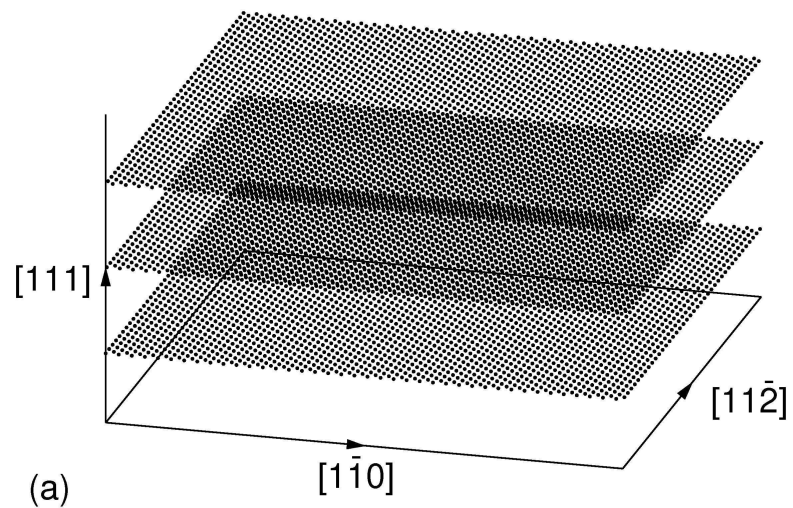
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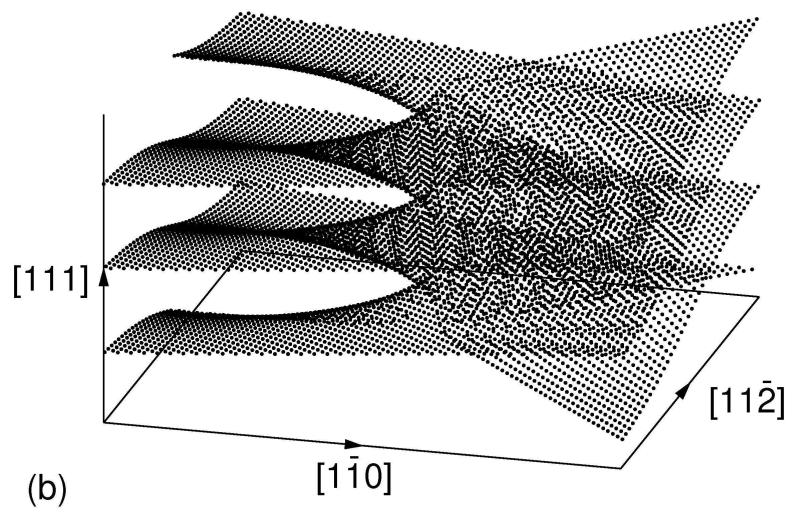
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127x88mm (600 x 600 DPI)

View Only

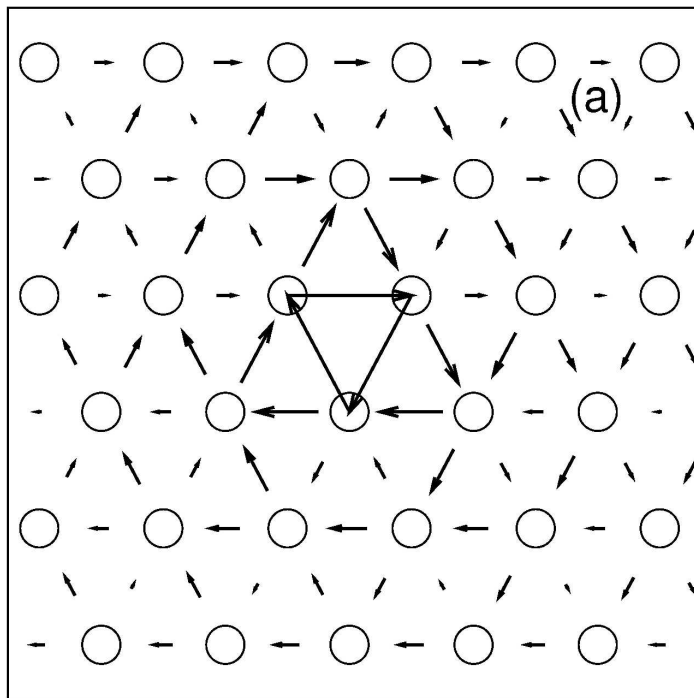


127x88mm (600 x 600 DPI)

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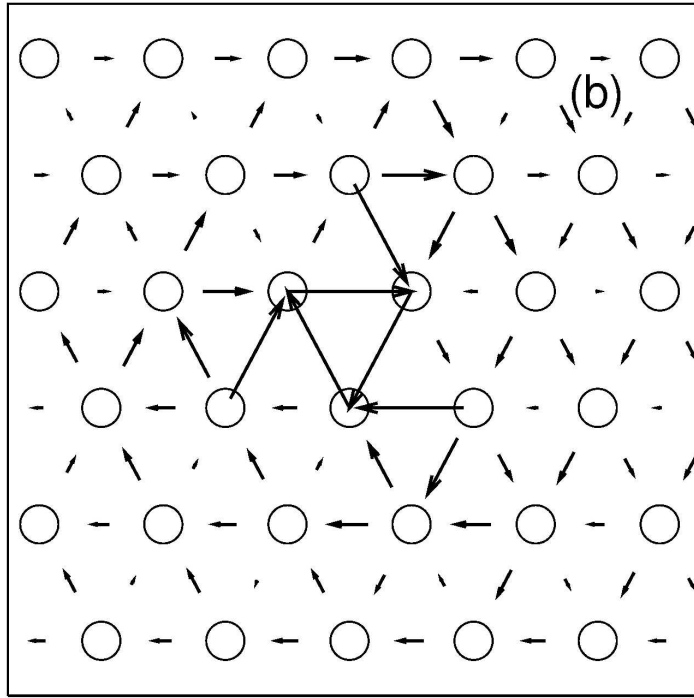
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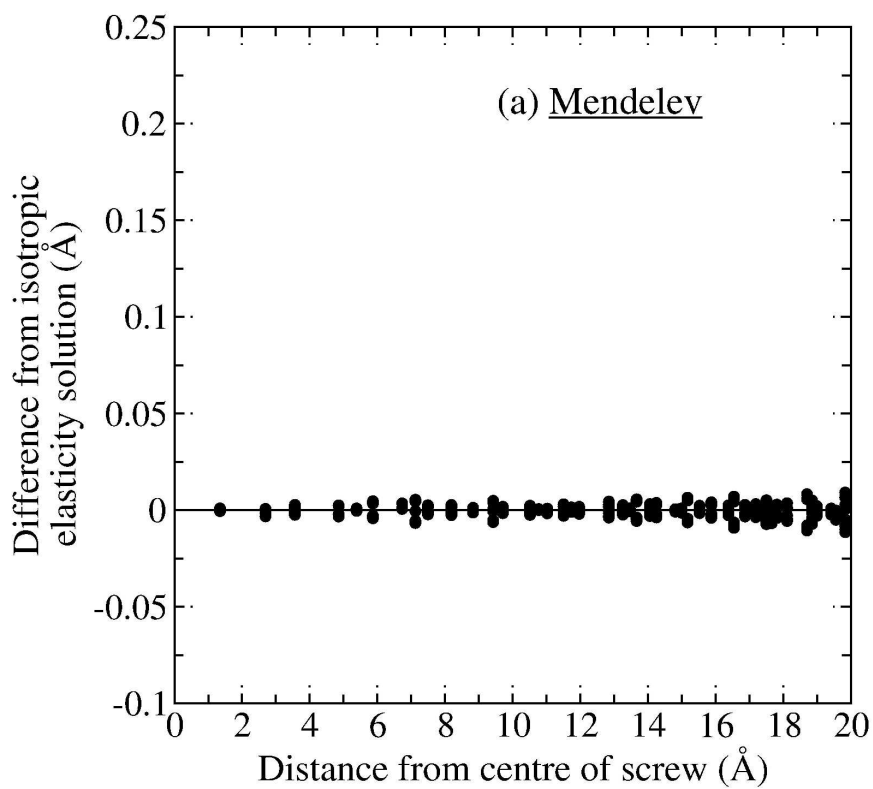
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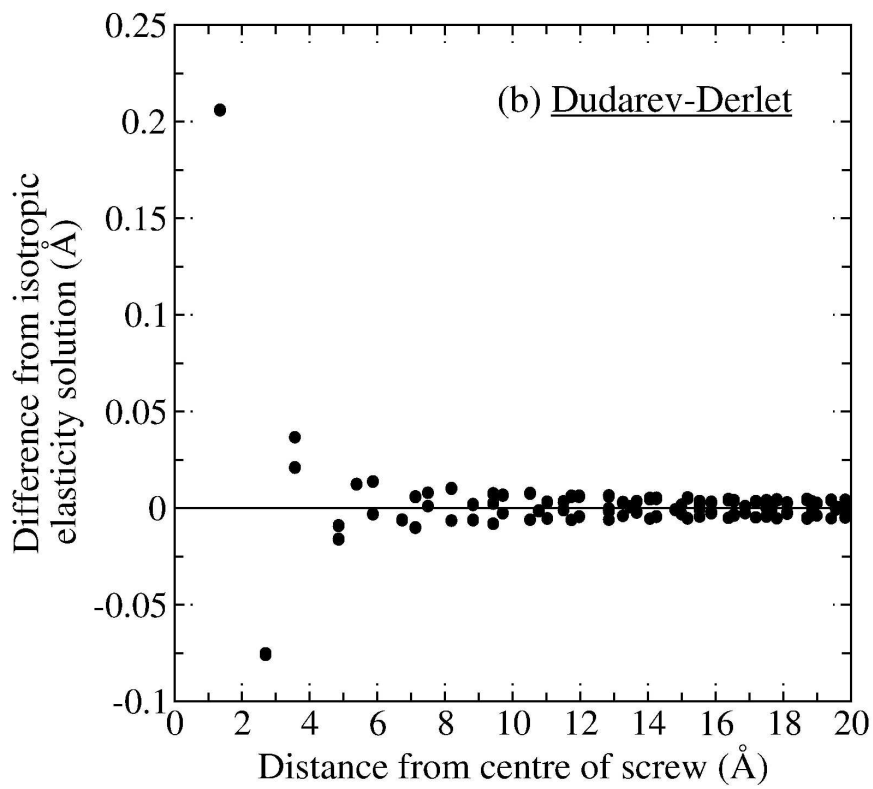
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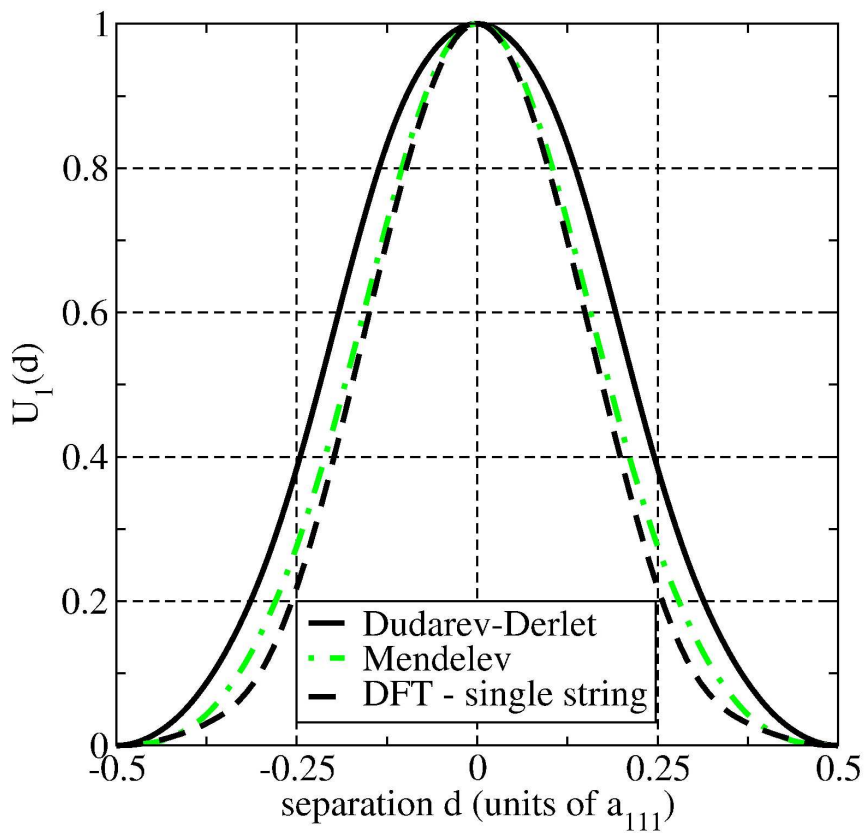
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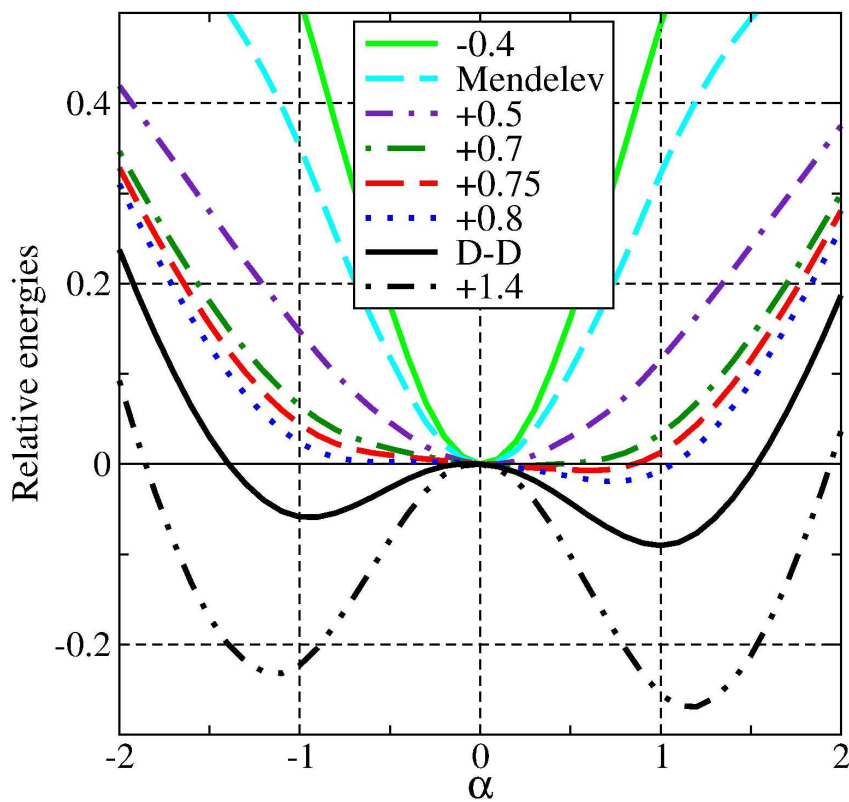


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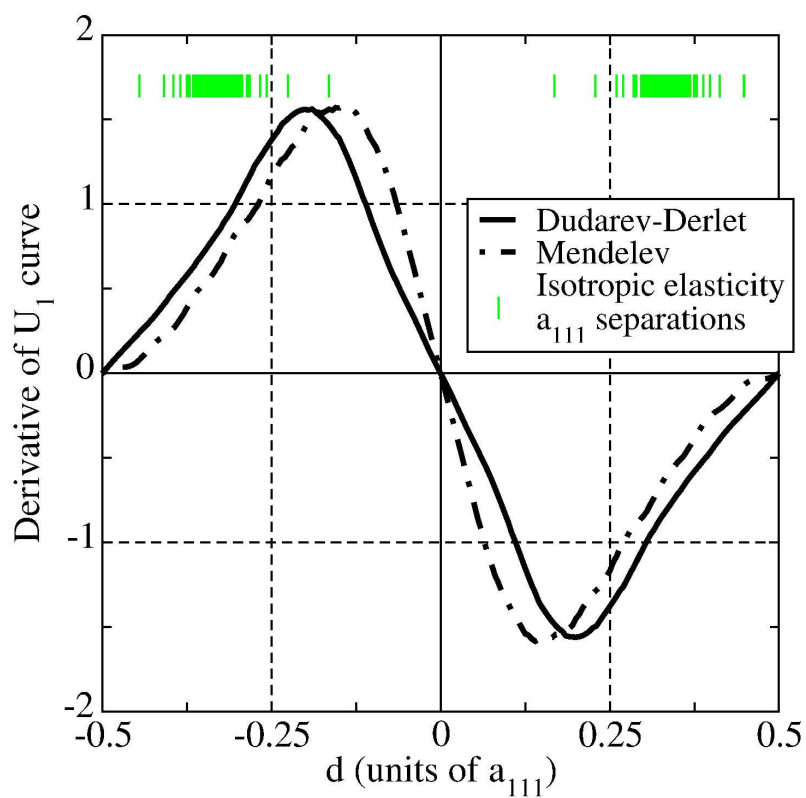


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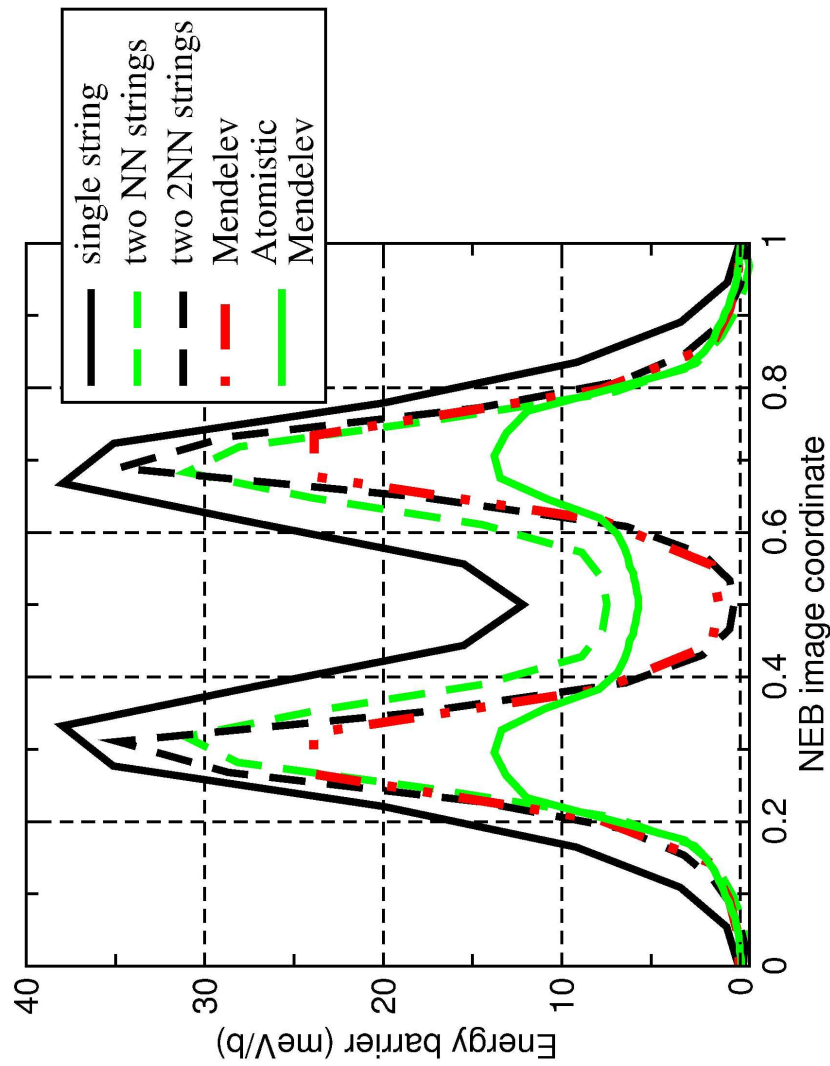


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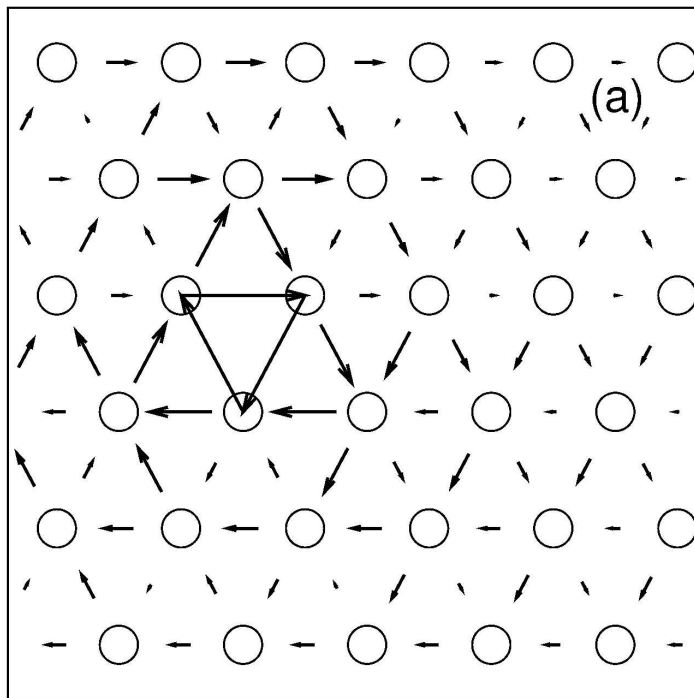


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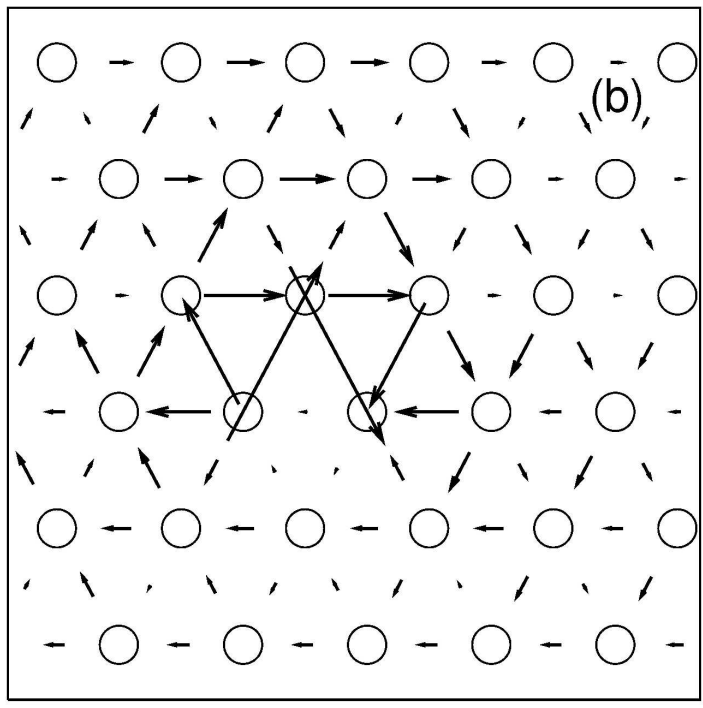
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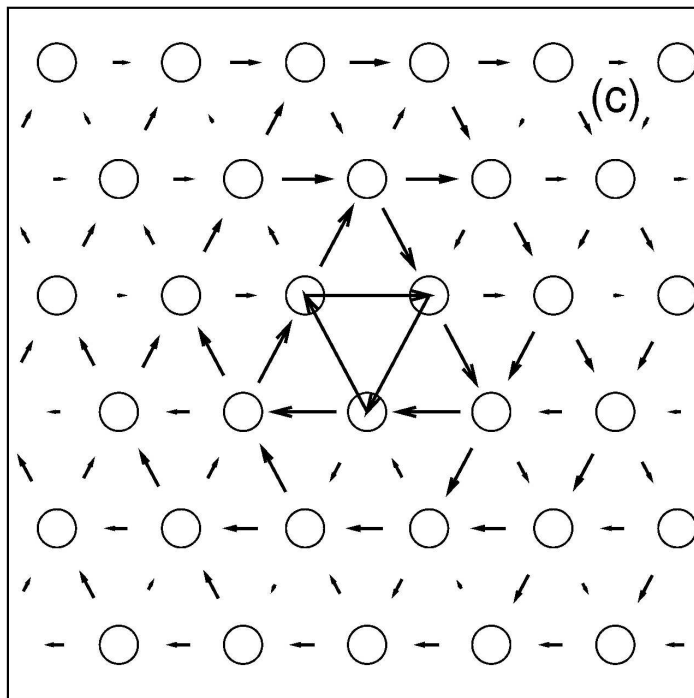
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