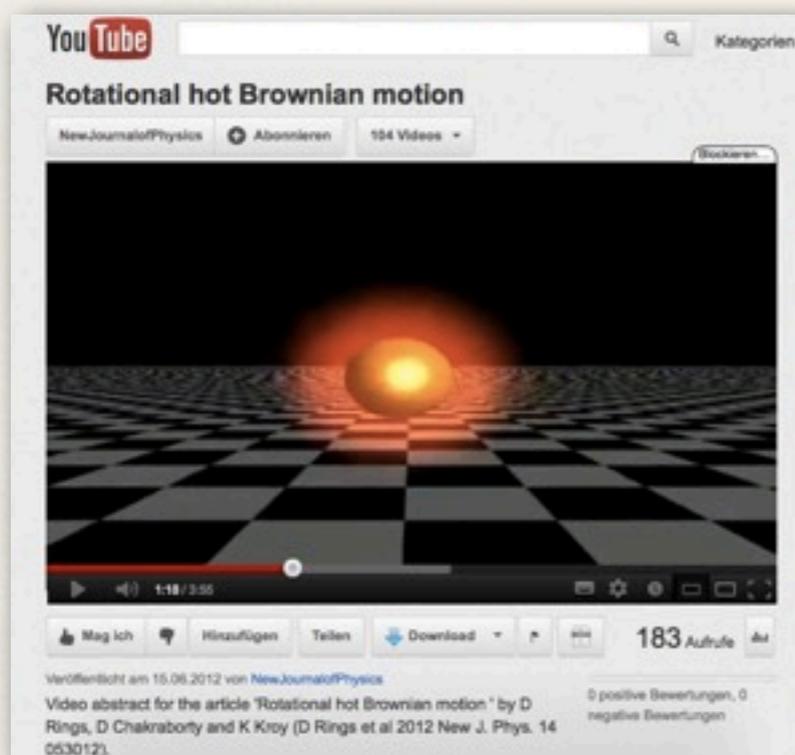
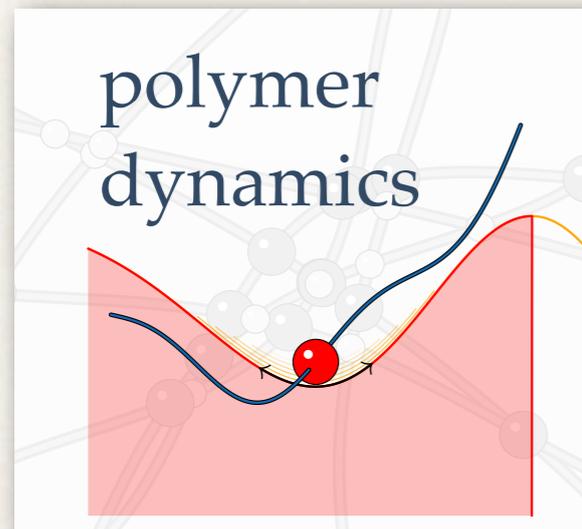


Condensed Matter Theory (TKM)

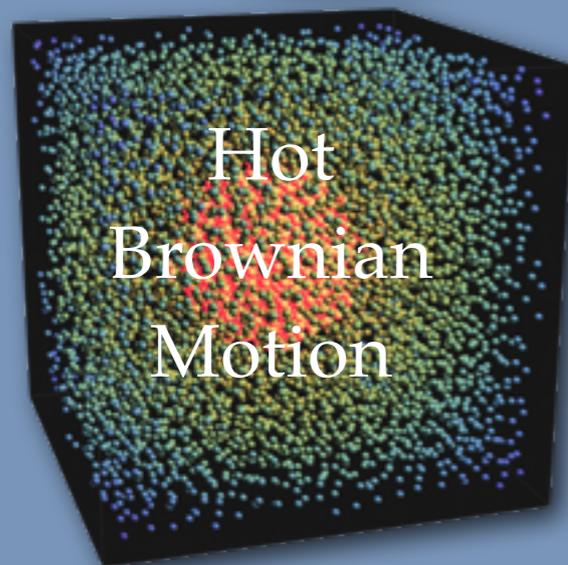
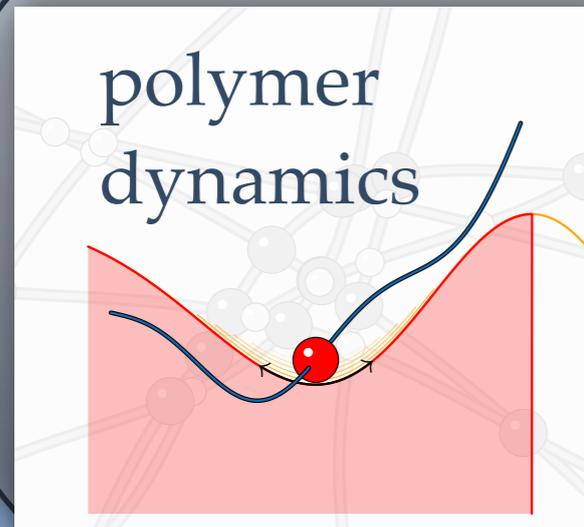
AG Kroy
AG Behn

Collaborations with AG Janke, AG Cichos, MPI MIS
& diverse external

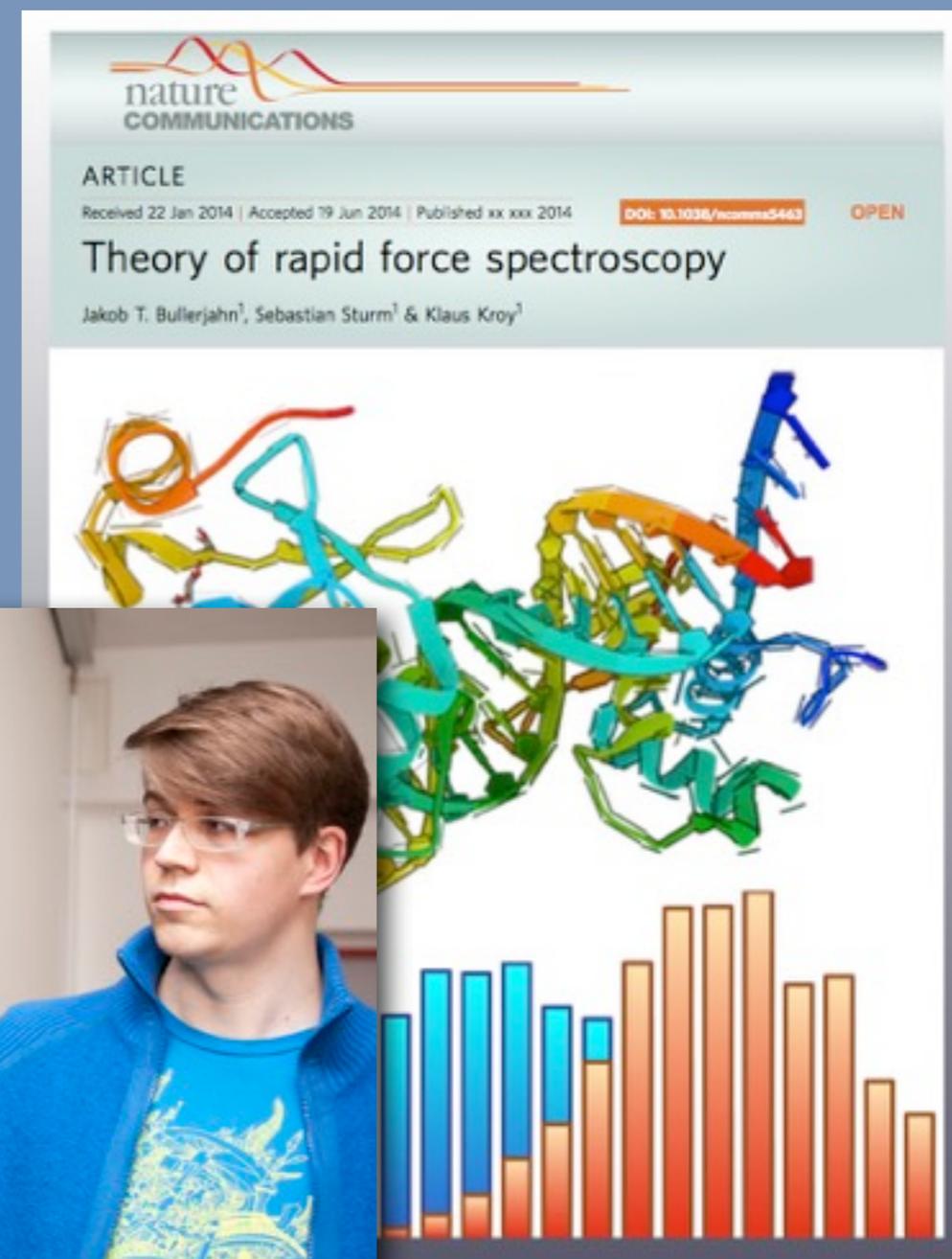
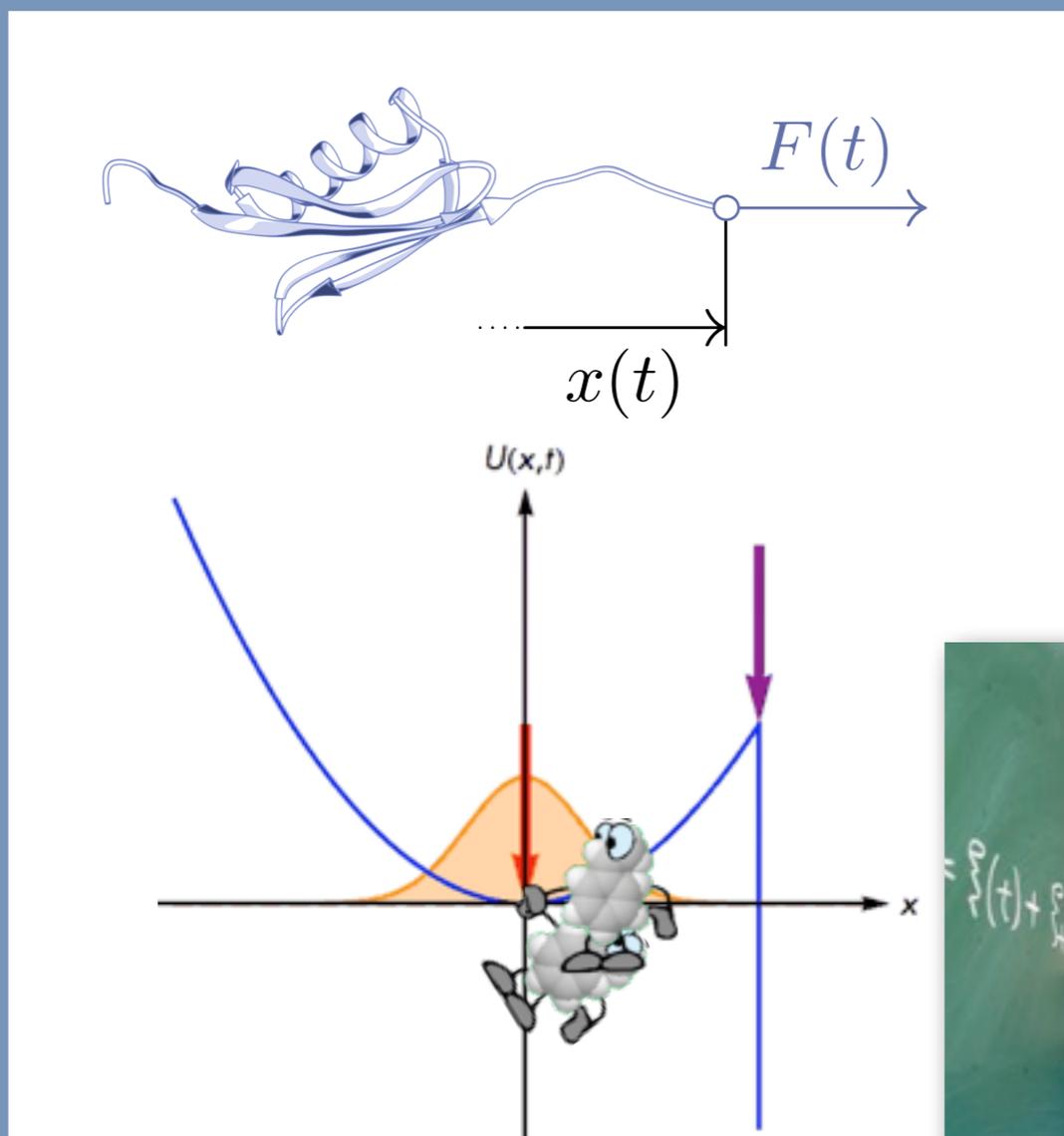
Soft Mesoscopics



Soft Mesoscopics



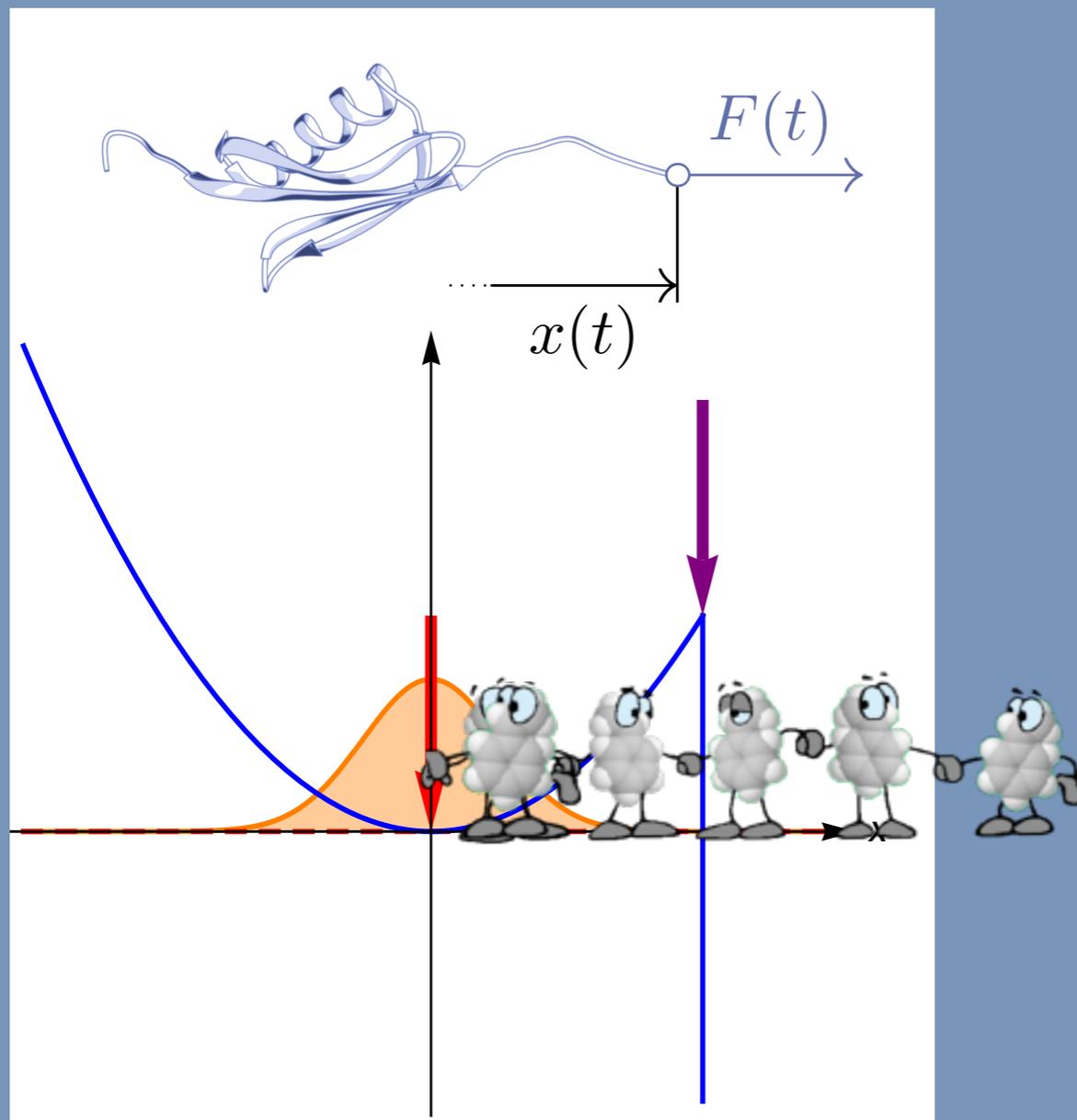
How a chemical bond breaks



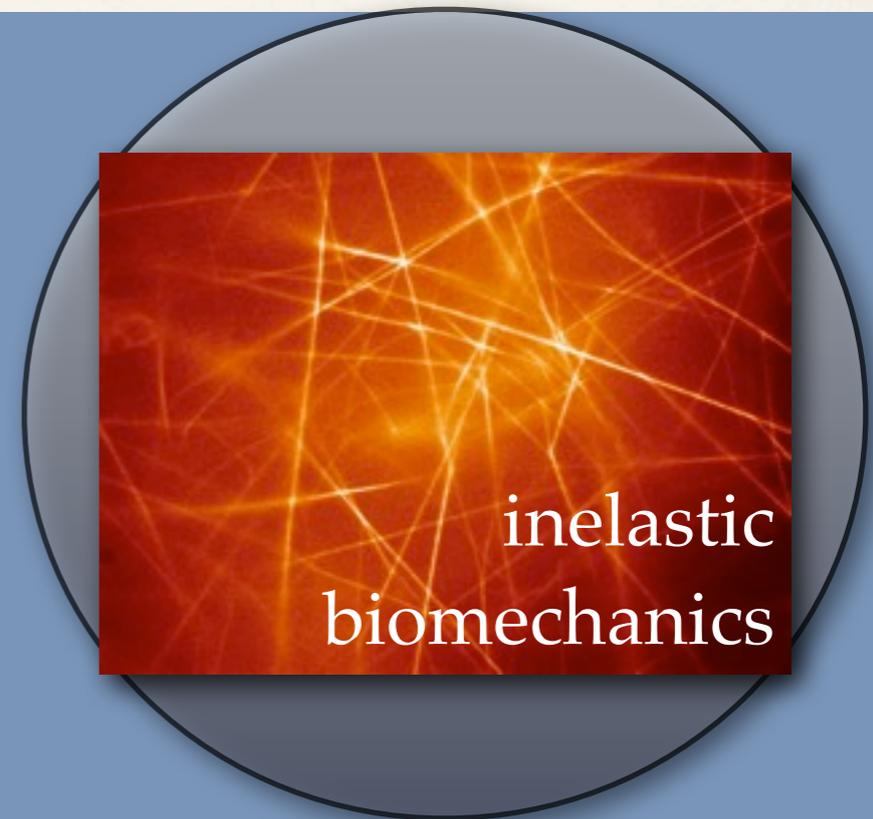
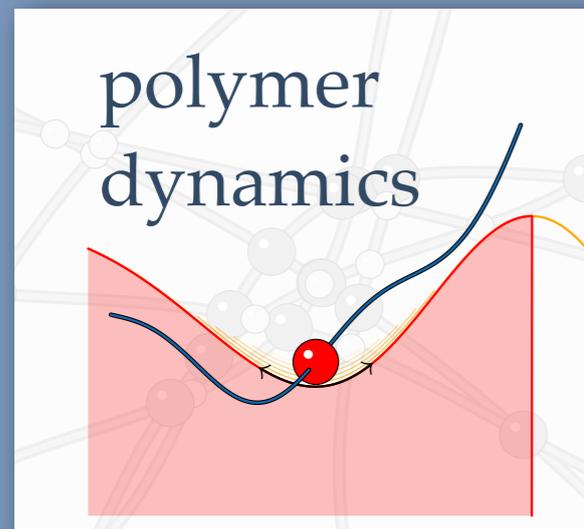
How a polymer breaks a bond



Sebastian Sturm



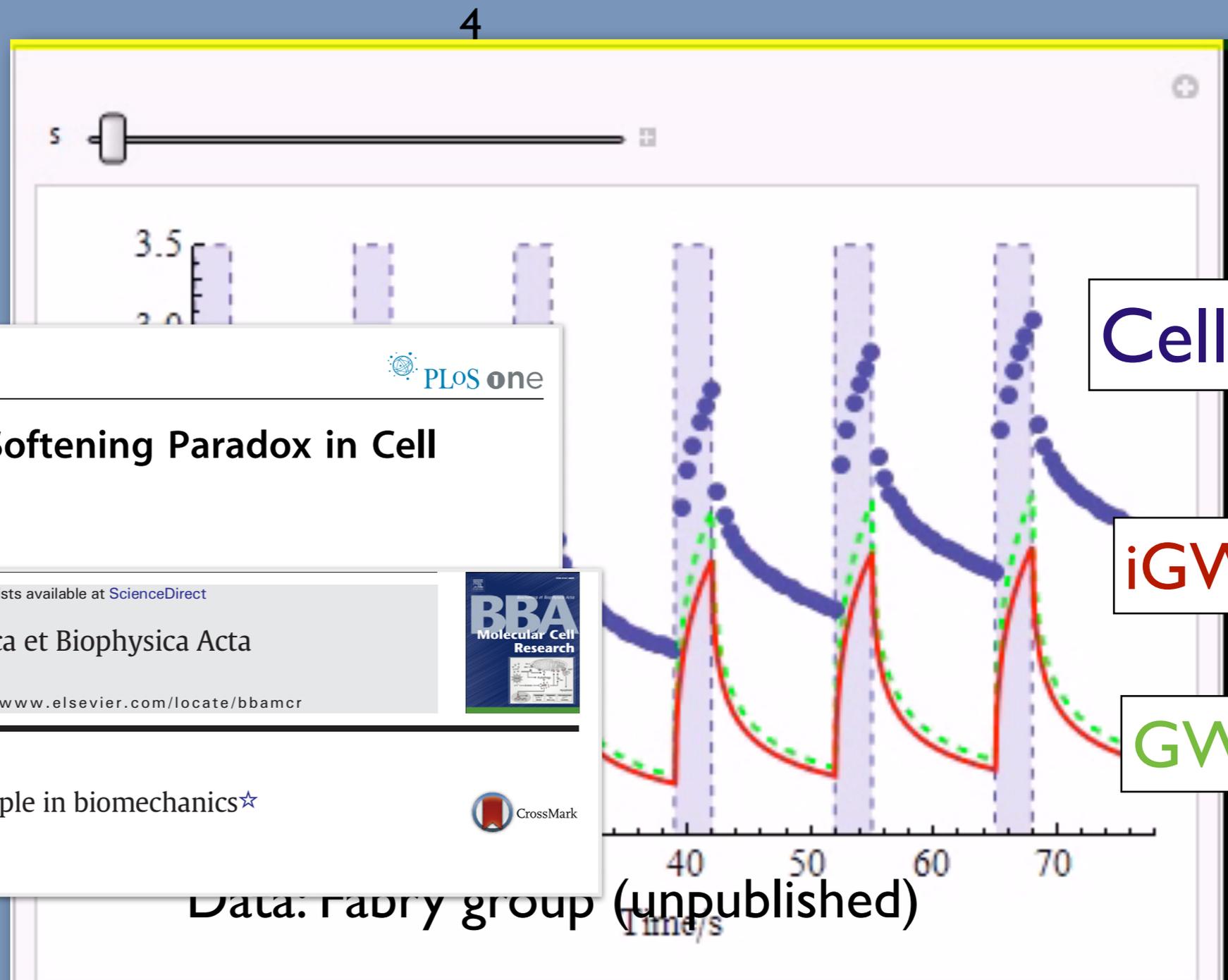
Soft Mesoscopics



Inelastic Biomechanics



Inelastic Biomechanics



Cells

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Resolving the Stiffening-Softening Paradox in Cell Mechanics

Lars Wolff¹, Pablo Fernández², Klaus Kroy^{1*}

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Review

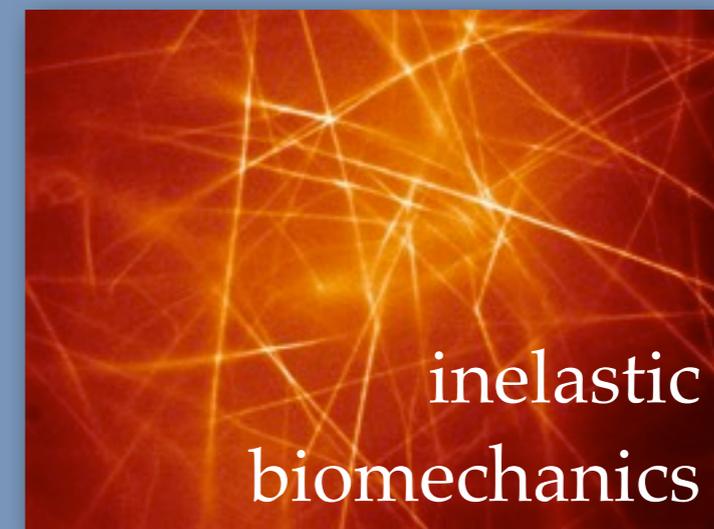
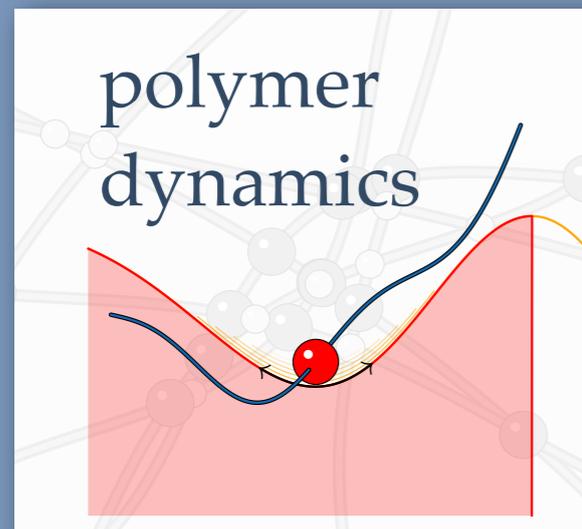
Inelastic mechanics: A unifying principle in biomechanics[☆]

Matti Gralka¹, Klaus Kroy^{*}

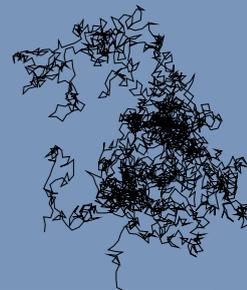
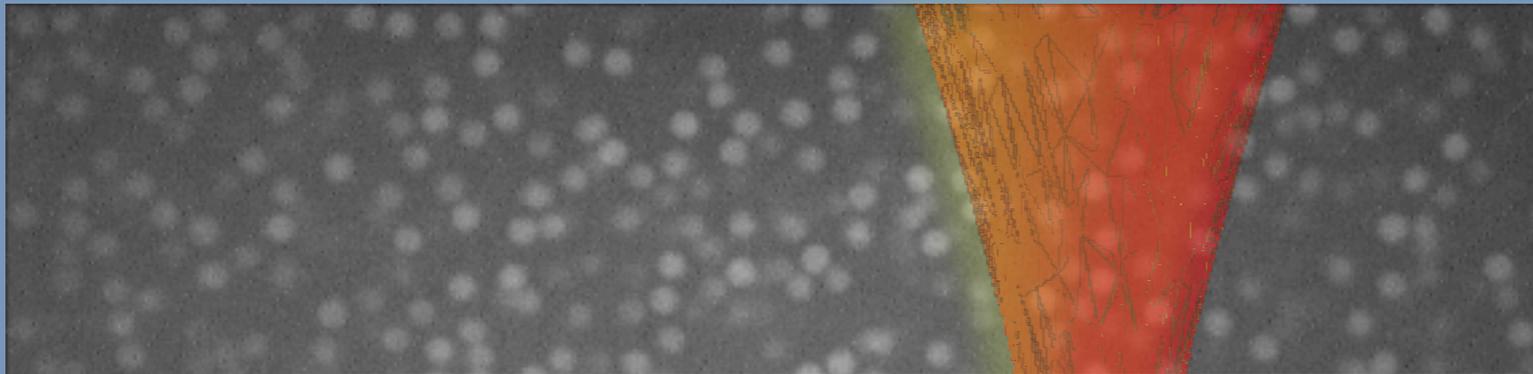


Data: Fabry group (unpublished)

Soft Mesoscopics



Hot Brownian Motion



PRL **105**, 090604 (2010)

PHYSICAL REVIEW LETTERS

week ending
27 AUGUST 2010



Hot Brownian Motion

Daniel Rings, Romy Schachoff, Markus Selmke, Frank Cichos, and Klaus Kroy*



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December 2011

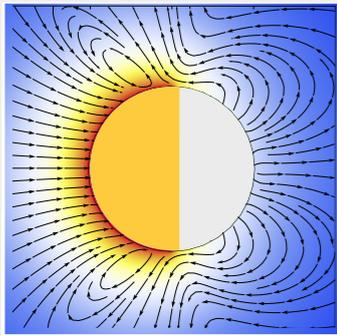
EPL, **96** (2011) 60009

doi: 10.1209/0295-5075/96/60009

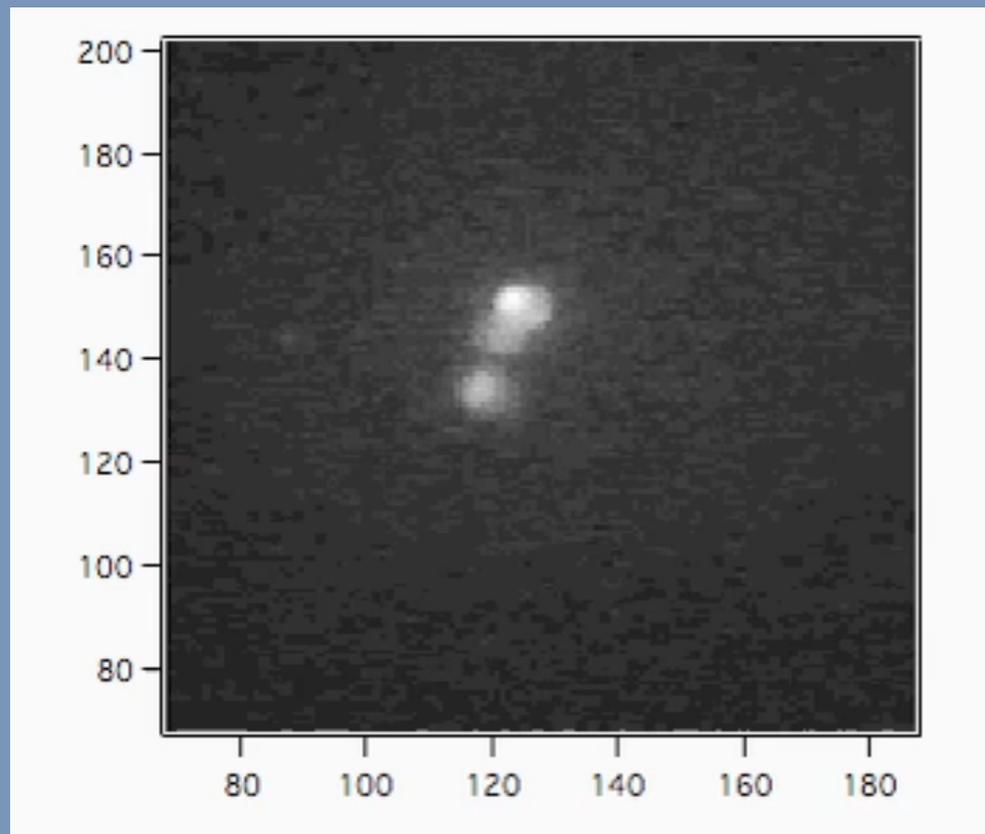
www.epljournal.org

Generalised Einstein relation for hot Brownian motion

D. CHAKRABORTY^{1,2}, M. V. GNANN³, D. RINGS^{1(a)}, J. GLASER¹, F. OTTO³, F. CICHOS² and K. KROY^{1(b)}

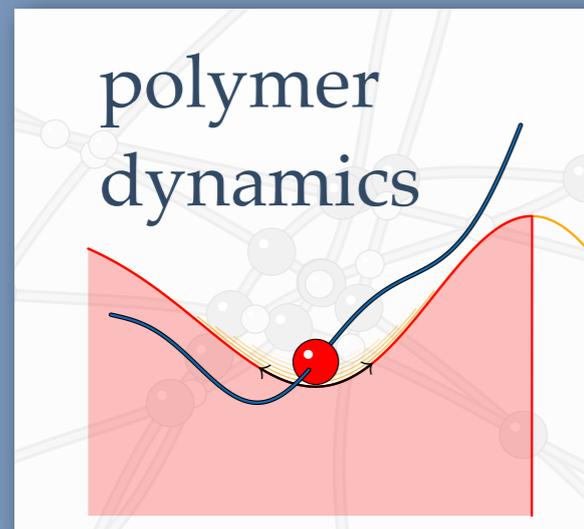


Hot Nano-Swimmers



Cichos group, EXP I, SPP 1726

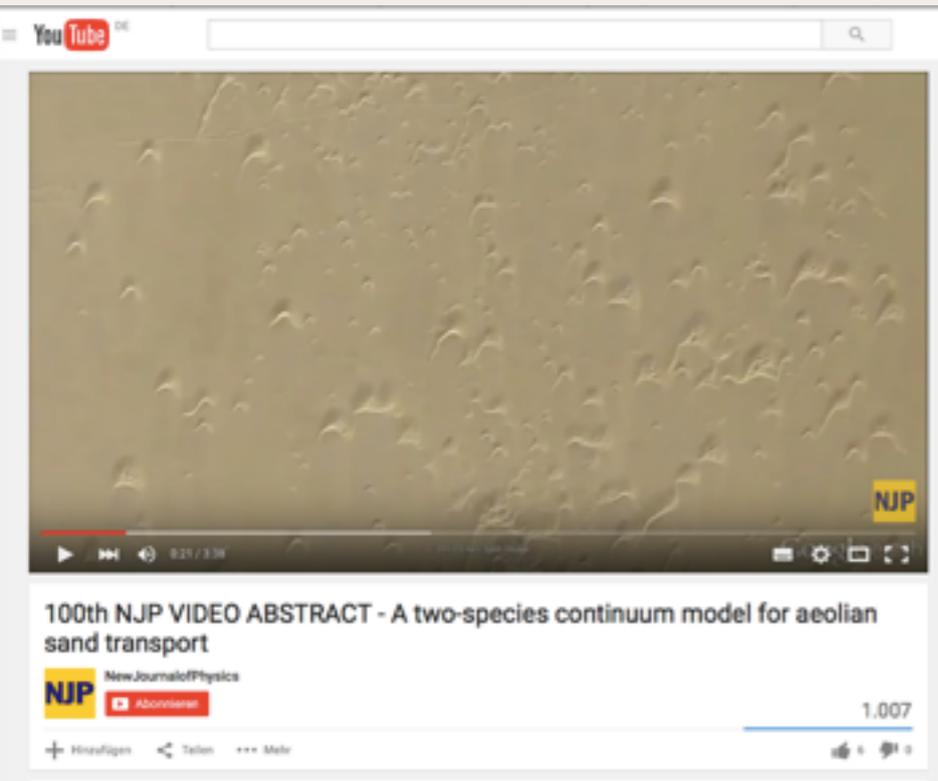
Soft Mesoscopics



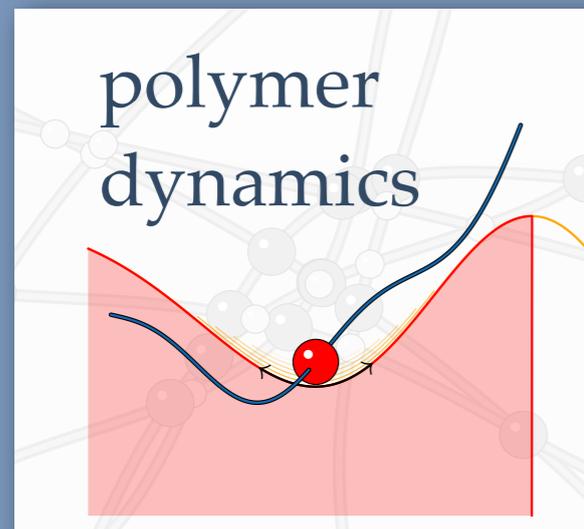
Windblown Sand



Wind-Blown Sand



Soft Mesoscopics



Inelastic Mechanics

