

SEMINAR - סמינר

הנך מוזמן/ת להרצאה סמינריונית של הפקולטה להנדסת מכונות, שתתקיים ביום גי 16.05.2017 (כי באייר, תשעייז), בבניין דן קאהן, אודיטוריום 1, 00 .13:

<u>ת רצה:</u>

Dr. Noemi Barrera

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על הנושא:

Strain Intermittency in Shape memory Alloys

The seminar will be presented in English

<u>להלן תקציר ההרצאה:</u>

We study experimentally the intermittent progress of the mechanically induced martensitic transformation in a Cu-Al-Be single crystal through a full-field measurement technique: the grid method. We utilize an especially designed gravity-based device which applies a perfectly monotonic uniaxial load through very small force increments.

The sample exhibits hysteretic superelastic behavior during the forward and reverse cubic-monoclinic transformation, produced by the evolution of the strain field of the phase microstructures. The inplane linear strain components are measured on the sample surface during the loading cycle, and we characterize the strain intermittency in a number of ways, showing the emergence of power-law behavior for the strain avalanching over almost six decades of magnitude. Joint work with X. Balandraud, P. Biscari, M. Grediac, G. Zanzotto.

מארח: פרופיימ גל שמואל

בברכה.

פפופ"א פאואל אוסוגסקי מרכז הסמינרים