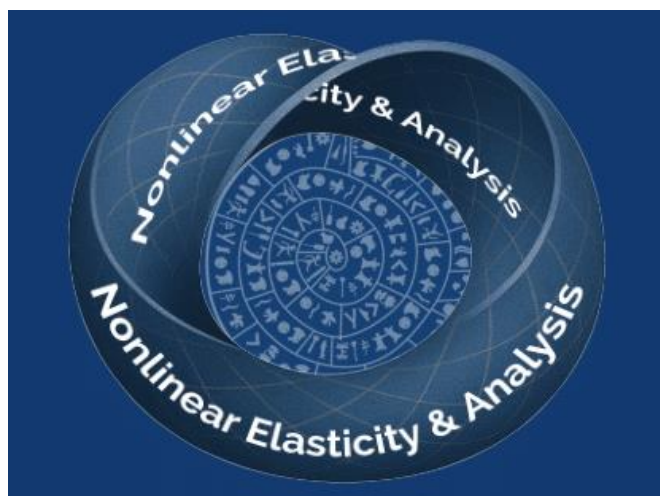# 59th SNP Meeting Program

11-13 JUNE 2025, LIANIS AUDITORIUM, FORTH MAIN BUILDING

Wednesday 11th (morning)

9:30-10:00   Registration and opening remarks

10:00-11:00   Roberto **PARONI** (Keynote lecture)
Towards a 1d model for tape spring devices

11:00-11:30   Coffee break

11:30-12:00   Lucas **Bouck**
Plate Theory for Metric-Constrained Actuation of Liquid Crystal Elastomer Sheets

12:00-12:30   James **Hanna**
Shear stresses in fluid and solid membranes with bending elasticity

12:30-14:00   Lunch

Wednesday 11th (afternoon)

14:00-15:00   Martin **KRUŽIK** (Keynote lecture)
Positive temperature in nonlinear thermoviscoelasticity

15:00-15:30   Brian **Seguin**
Isometric immersions and framed curves

15:30-16:00   Alfio **Grillo**
Internal constraints in uniaxial nematic elastomers: Indeterminacy and resolution via gauge relations

16:00-16:30   Coffee break

16:30-17:30   Stefan **KRÖMER** (Keynote lecture)
Elastic materials with microscopic, elastically rigid magnetic inclusions

Thursday 12th (morning)

9:00-9:30	Introductory Remarks
9:30-10:30	**JOHN BALL** (TRUESDELL lecture)
	Complex martensitic microstructures in Ti76Nb22Al2
10:30-11:00	Coffee break
11:00-11:30	Georgios **Grekas**
	Electro- and Magneto-Elastic Modeling with Applications to Potassium Sodium Niobate and Iron-Nickel Alloys
11:30-12:30	Konstantinos **KOYMATOS** (Keynote lecture)
	On the role of quasiconvexity in dynamics
12:30-14:00	Lunch

Thursday 12th (afternoon)

14:00-15:00	Barbora **BENEŠOVÁ** (Keynote lecture)
	Linearization in elastodynamics
15:00-15:30	Salvatore **Federico**
	Symmetries of the Elasticity Tensor Induced by the Jaumann Rate of the Kirchhoff Stress
15:30-16:00	Coffee break
16:00-16:30	Ahmed **Elbanna**
	A Quasi-Continuum Framework for Rate-Dependent Fracture in Polymer-like Networks
16:30-17:30	Arnav **Gupta**
	The inverse-deformation approach to fracture
20:00	Social Dinner

Friday 13th (morning)

10:00-11:00	Athanassios **TZAVARAS** (Keynote lecture)
	Mathematical aspects of the equations of viscoelasticity with strain gradients
11:00-11:30	Coffee break
11:30-12:00	Reuven **Segev**
	On the kinematics and statics of multipolar media
12:00-12:30	Yi-Chao **Chen**
	Internal constraints and dimension reduction of deformations
12:30-13:00	**TBA**