

Tutorial T5:

Lattice Dynamics & Nuclear Inelastic Scattering

(sample design / data acquisition & evaluation)

Place: room 18.1.10 + room 18.1.11 + Control Cabin 1 [CC1]/ID14

Schedule: Monday, February 2nd, 2026

09:00 – 09:15: Meet at ESRF reception (main ESRF building) and proceed to venue

09:15 – 09:45:	Welcome / Introduction / Nuclear resonance beamline at ESRF	(R.R.)	– 18.1.11
09:45 – 10:15:	Lattice Dynamics & Nuclear Inelastic Scattering	(A.C.)	– 18.1.11

10:15 – 10:30: Coffee break – room 18.1.10

10:30 – 11:00:	Sample design for Nuclear Inelastic Scattering measurements	(D.B.)	– 18.1.11
11:00 – 12:00:	Hands on: Nuclear Inelastic Scattering data acquisition + BL excursion	(D.B.+I.K.)	– ID14 CC1

12:00 – 14:00: Group photo / Lunch break (ESRF canteen)

14:00 – 14:45:	Showcases of NIS applications from material, chemical and life sciences	(V.S.)	– 18.1.11
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14:45 – 15:00: Coffee break – room 18.1.10

15:00 – 15:45:	Lattice dynamics of thin films and nanostructures from NIS experiment supported by ab initio theory	(S.S.)	– 18.1.11
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15:45 – 16:00: Coffee break – room 18.1.10

16:00 – 16:45:	NIS at extreme pressures and temperatures – an enabling technique for sound-velocity measurements under deep planetary interior conditions	(I.K.)	– 18.1.11
16:45 – 17:15:	Hands on: Data evaluation	(D.B.)	– ID14 CC1

17:10 – 17:45: Closing Remarks (R.R.)

Invited:

S.S.: Svetoslav Stankov

V.S.: Volker Schünemann

The organizers:

R.R.: Rudolf Ruffer

A.C.: Alexander Chumakov

I.K.: Ilya Kupenko

D.B.: Dimitrios Bessas