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Monitoring of protein aggregation by levitation techniques on D33

Thursday, 19 May 2022 09:30 (30 minutes)

The sample environment is a critical component of research programs in advanced materials, geological systems, biology, and energy-related applications.
Over the past ten years, an increasing number of studies on liquid materials have been carried out thanks to container-free sample handling methods. Techniques based on aerodynamics or electromagnetic levitation have created new opportunities for investigating the structure of high-temperature liquids (up to 3000K) and during their glass transition with a very high degree of temperature and chemical composition control.
In this talk, I will present the technique we have implemented to monitor the aggregation of proteins in solution using a Single-axis Acoustic Levitator (SAL) device available at ILL.

Isabelle accompanied me from my first step with the levitator experience. She shared with me the long SANS experiments helping me to solve problems and to find the best solutions to obtain the best results with such a complex set-up.
This will be my way to commemorate her and to thank her for being my ‘shoulder‘ during our 10 years of friendship.

Primary author: CRISTIGLIO, Viviana

Presenter: CRISTIGLIO, Viviana

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