**On the role of x-ray and neutron scattering to describe structure and dynamics in ILs systems.**

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In this contribution I will show selected results on the application of x-ray and neutron scattering techniques to extract sound information on morphology and dynamics in neat ILs and their mixtures with other molecular liquids.

These techniques cover a micro- to mesoscopic spatial/temporal scale, thus providing an unparalleled access to the most peculiar properties in these systems, especially with the support of advanced computational methods.

The proposed examples will deal with experiments run both at European Large Scale facilities and (for the case of x-ray) at unique in-house instruments, to stimulate potential interest in the WG components.