

## Round table: Sagamore Research

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The round table will discuss the following points concerning the future of Charge, Spin and Momentum Densities research.

- **Accuracy, Instrumentation**  
*Is there a limit or can we hope for an ever improving accuracy?*  
*How to estimate accuracy and precision?*  
These important topics now seem to be more and more the “pré carré” of the diffractometers companies.
- **New models? To analyze which systems? Theory versus experiment?**  
*Does theory still need our experimental approach and for which problems?*  
*What problems need charge/spin/momentum density studies?*  
*Where is our contribution really necessary?*
- **Time resolved and charge density** (Synchrotrons , Xray FEL )  
*Any chance in the future to model a real dynamic electron density?*
- **Theory versus experiment**  
*Does theory still need our experimental approach and for which problems?*  
*What problems need charge/spin/momentum density studies?*  
*Where is our contribution really necessary?*
- **Combined methods to model the first order reduced density matrix**  
Elastic, inelastic X/n/γ Scattering , NMR, EPR,IR, Raman, positron spectroscopies, ...
- **Basic education for the future**  
Not only teaching how to use XD, Mopro ... etc, black boxes. This question is also linked to the next one.
- **Future of the community**  
The charge, spin and momentum community is at 90% a charge density community very often without any interest for other scattering/spectroscopy methods : on the other hand inelastic scattering people do not care for charge density methods and results.  
*How can we improve the communication/education within the community?*  
*How can we better stimulate and foster research undertaken from different points of views in order to obtain multifaceted answers?*  
*Can we do something to rebuild our scientific community?*  
*Is it worth to try?*