

Nuclear Resonance Scattering: Again a new era at the horizon.

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With synchrotron radiation, Mössbauer spectroscopy got not only new impetus but also opened up new fields and comprises nowadays as well quasi- and inelastic spectroscopies, Synchrotron Radiation based perturbed Angular Correlation (SRPAC) and other facets utilizing the nuclear resonances. We have seen exciting developments comparable to those in the early days of the Mössbauer age. This all was not only possible with the bright ideas in science popping up everywhere but as well with the bright ideas and heavy work by the users and beamline staff developing new techniques and instruments. Now with the ESRF-EBS we have again reached a landmark where exciting science and techniques are at the horizon. However, we will not stay alone, the other big synchrotron radiation facilities will soon follow and new ones are expected to come, both with the potential to surpass the existing one. Again, we need the very fruitful collaboration of users and beamline staff to get the best out of the development meaning to achieve new exciting results we may even not think about today.

During the workshop, we will hear about a wealth of new ideas on techniques and instrumentation. Looking around in the general synchrotron radiation world phrases such as “nano”, “imaging”, “coherence”, and “holistic approach” are *en vogue*. What will be applicable to NRS? Where shall we go? We will highlight some aspects and developments, which might be crucial for the future. May be there are as well some dreams.