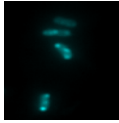


# Temporal resolution and dynamics

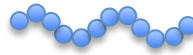
Antibiotic  
accumulation  
in bacteria



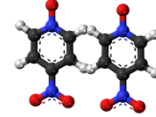
Catalysis



Phonons



Chemical reactions



1s

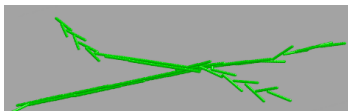
1ms

1 $\mu$ s

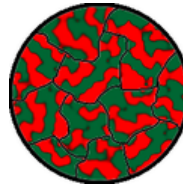
1ns

1ps

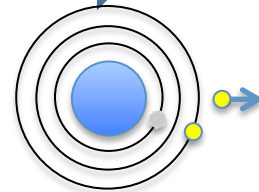
1fs



Fibrin  
growth kinetics



Magnetization  
dynamics



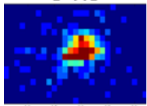
Auger  
processes

Thanks to the different synchrotron filling modes and to the large amount of available technics, it is already possible to realize time resolved experiments and dynamic measurements at SOLEIL covering second to picosecond mechanisms.

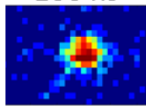
The purpose of this workshop is to present the actual possibilities and to discuss the future needs of users' community. Do we need further temporal resolution? Do we need to implement new time-resolved techniques such as Laue measurements?

In order to introduce the discussion, one presentation will be given on the machine operating modes, followed by examples from different communities.

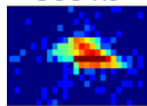
0 ns



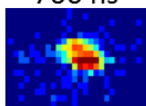
100 ns



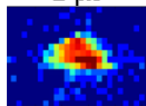
300 ns



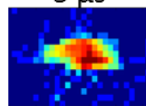
700 ns



1  $\mu$ s



5  $\mu$ s



10  $\mu$ s

