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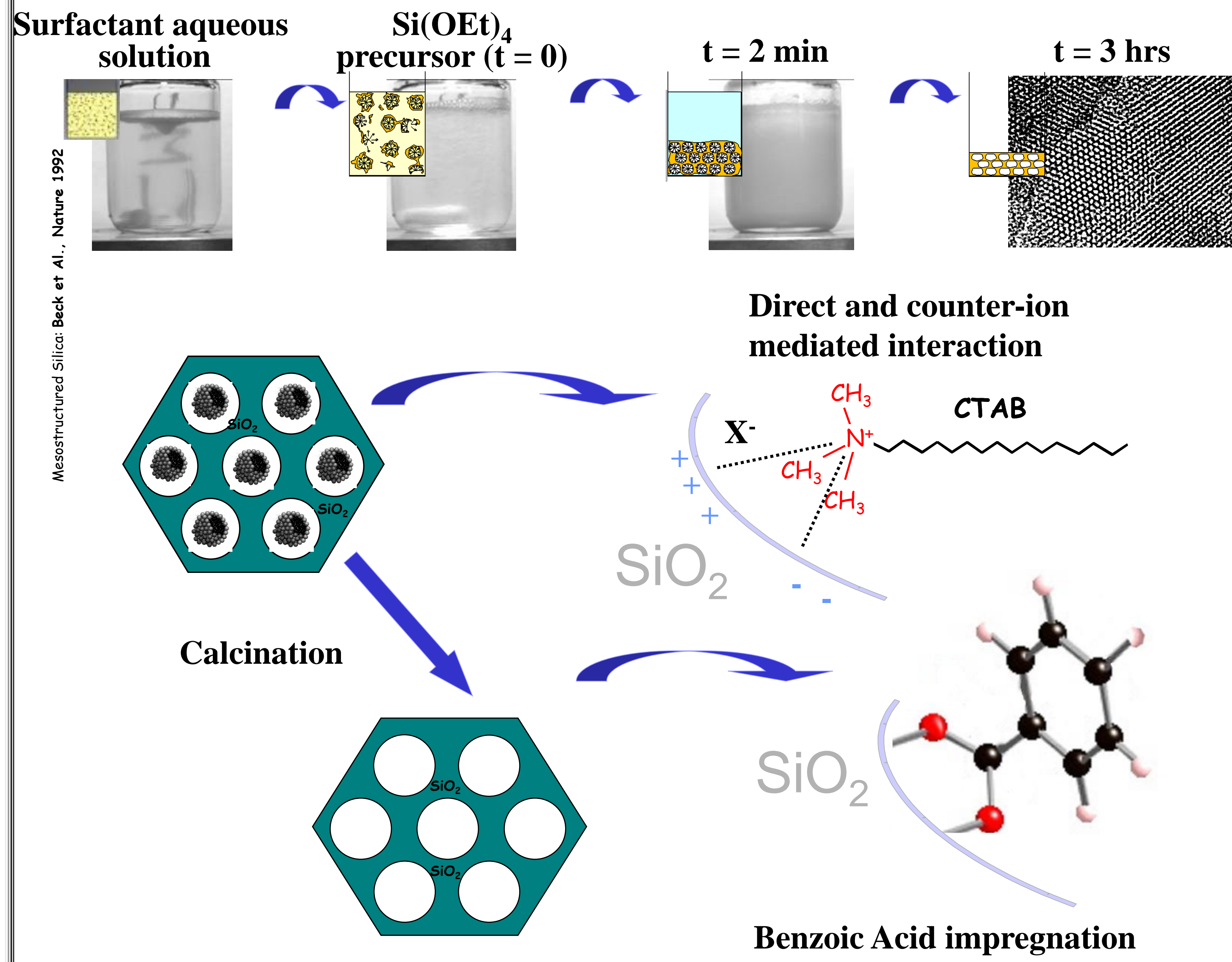
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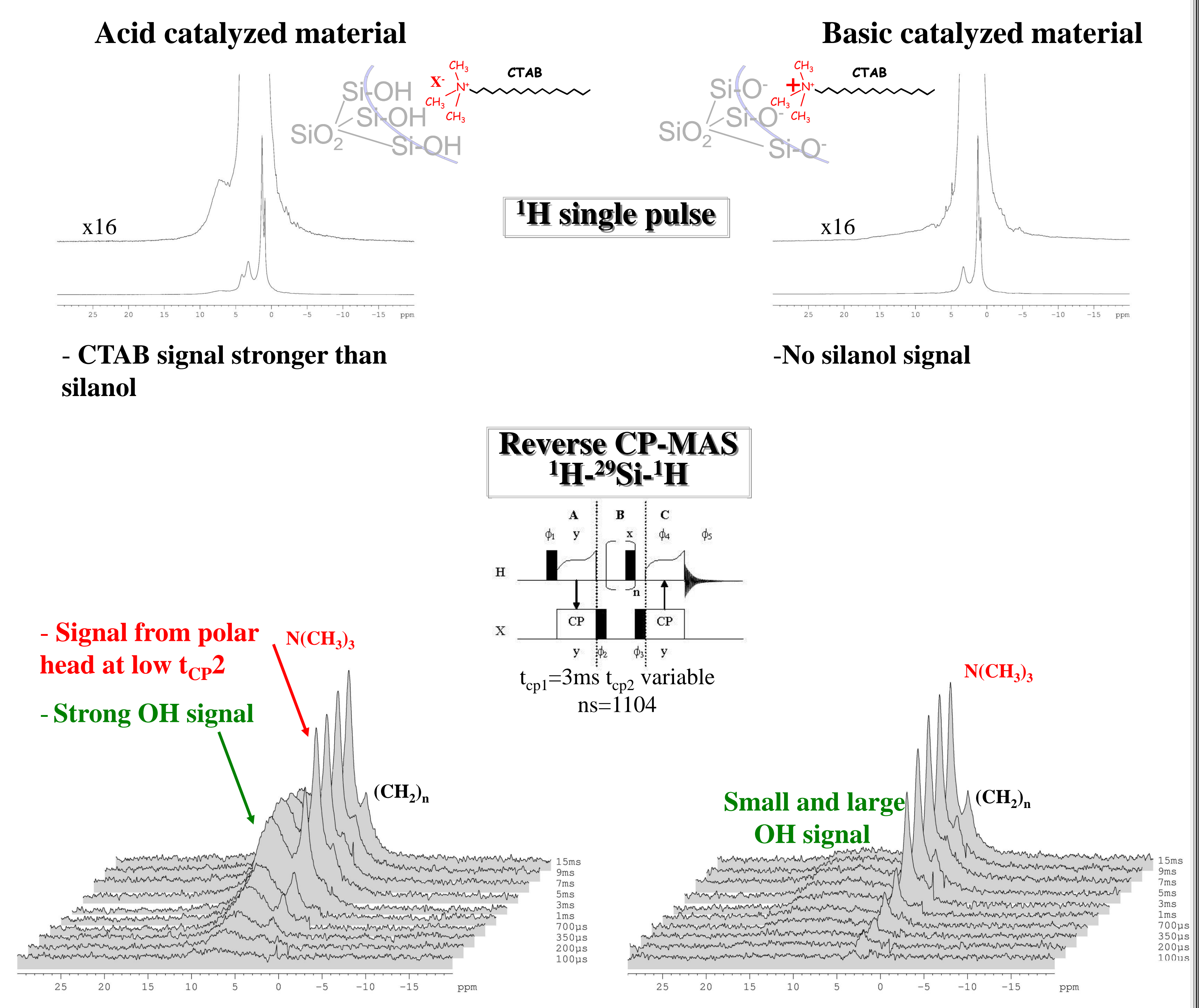
Nano-organised silica powders, prepared from self-assembly of surfactants and siliceous species, have done their breakthrough in the early '90s and, ever since, the interest of the material's community is growing continuously because of the extreme versatility of the process and the important number of possible applications achievable. Despite numerous contributions to the subject, some basic information concerning interactions at organic/inorganic interface has not been clarified yet. This poster will try to show how some advanced solid state NMR experiences can contribute to give more insights to some structural problems at the silica/surfactant interface and host-guest interactions between silica and embedded molecules.

Introduction



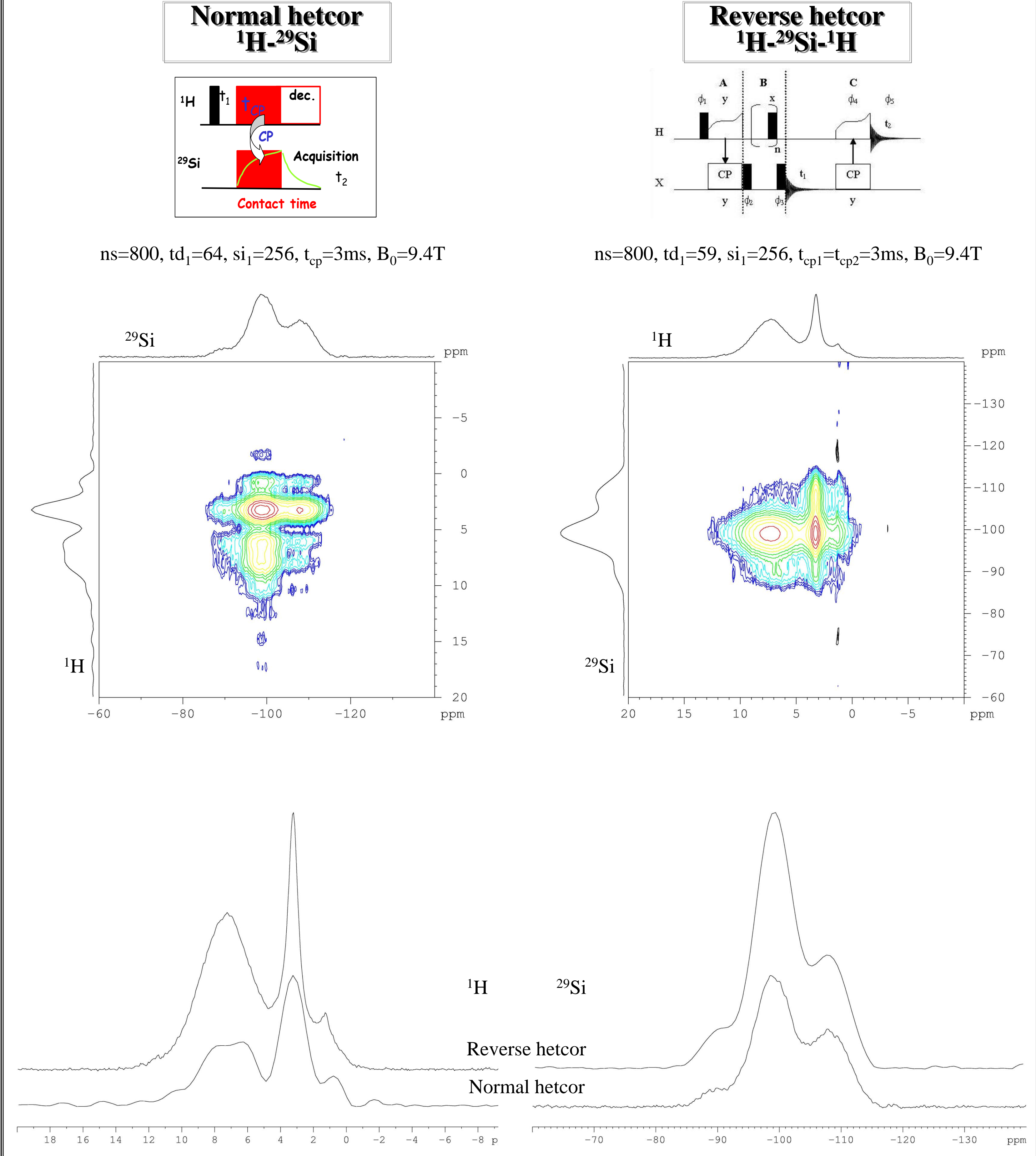
CTA⁺ – SiO₂ interactions

B₀ = 7.04 T; MAS = 14 kHz



CTA⁺ is further away from surface in acid-based materials

2D heteronuclear correlation



2D silicon filtered noesy

