

Česká společnost chemická, pobočka Brno

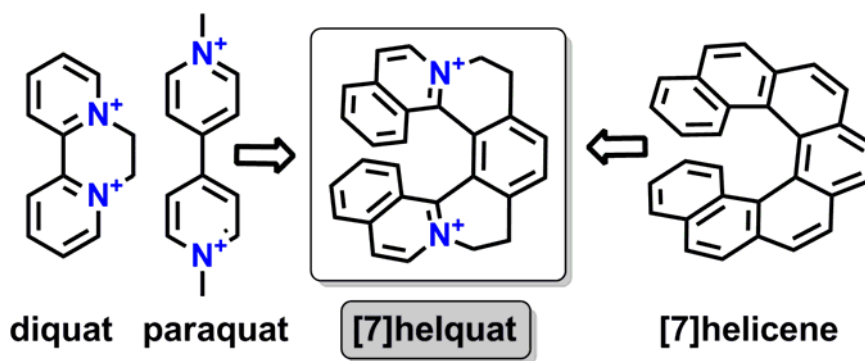
Vás zve na přednášku, která se koná v místnosti 132, 1.NP, budova A11,
Kamenice 5, Přírodovědecká fakulta Masarykovy univerzity, Brno

ve čtvrtek 1. března 2012 ve 14:00 hod.

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Helquats: Chemistry of Helicene-Viologen Hybrids



Abstract: Viologens and helicenes have been in focus of many research laboratories due to their attractive and rich chemistry. This interest centers mainly around electrochemistry, supramolecular self assembly, optical properties, chirality, and catalysis. In our recent reports we introduced helquats which represent a structural link between helicenes and viologens (see scheme and references). Our efforts have been driven by a hypothesis that crossbreeding the two widely known and privileged compound classes will generate interesting and useful knowledge. Helquat chemistry will be discussed from the point of view of our current synthetic and stereochemical studies.

References: Initial report on helquats: *Chem. Eur. J.* **2009**, 1072.

Synthesis of non-symmetric helical dication: *Tetrahedron* **2010**, 3537.

[6]Saddlequat: a [6]helquat captured on its racemization pathway: *Chem. Sci.* **2011**, 2314, see movie therein.

Preparative and analytical separation of helquat enantiomers: *New J. Chem.* **2010**, 1063; *Electrophoresis* **2011**, 2683; *Eur. J. Org. Chem.* **2012**, 489.

<http://www.uochb.cz/web/structure/381.html>

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