

Laboratoire Léon Brillouin



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Quasi-2D quantum magnets comprised of strong hydrogen bonds and pyrazine ligands.

Mardi 18 mars 2008 à 14h 30

Salle de conférence 15 – Bâtiment 563

We are employing bifluoride, HF_2^- , as a synthon in the self-assembly of magnetic coordination polymers of various dimensionalities, d , where d can be controlled using appropriate ancillary organic ligands. Two classes of materials have been produced which consist of quasi-2D networks held together via very strong hydrogen bonds. These new systems demonstrate interesting magnetic properties ranging from long-range antiferromagnetic ordering to weak ferromagnetism. Similar to cyanide, azide, and other small ligands, our work suggests that M-F...H...F-M and M-F...H-O-M bridges can be exploited in analogous fashion to produce a wealth of new magnetic coordination polymers. Highlights of this work will be presented.

Formalités d'entrée : Contacter le Secrétariat pour votre autorisation d'entrer sur le Centre de Saclay :

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