

## Electronic Supporting Information

### Atomic Force Microscopy and Near-Field Optical Imaging of a Spin Transition

Manuel Lopes,<sup>a</sup> Carlos M. Quintero,<sup>a</sup> Edna M. Hernández,<sup>a</sup> Víctor Velázquez,<sup>b</sup> Carlos Bartual-Murgui,<sup>a</sup> William Nicolazzi,<sup>a</sup> Lionel Salmon,<sup>a</sup> Gábor Molnár,\*<sup>a</sup> Azzedine Bousseksou\*<sup>a</sup>

<sup>a</sup> Laboratoire de Chimie de Coordination, CNRS & Université de Toulouse (UPS, INP), 31077 Toulouse, France, E-mail : [gabor.molnar@lcc-toulouse.fr](mailto:gabor.molnar@lcc-toulouse.fr), [azzedine.bousseksou@lcc-toulouse.fr](mailto:azzedine.bousseksou@lcc-toulouse.fr)

<sup>b</sup> Facultad de Ciencias, Universidad Nacional Autónoma de México, 04510 México, D.F., México

#### Movies:

- SI1a: Reflectivity cooling branch of C1
- SI1b: Reflectivity heating branch of C1
- SI2a: Reflectivity cooling branch of C2
- SI2b: Reflectivity heating branch of C2
- SI3: AFM thermal cycle on C2
- SI4a: Reflectivity cooling branch of C2 (before)
- SI4b: Reflectivity heating branch of C2 (before)

#### Figures:

SI5: SEM images of an NSOM tip with an aperture of ca. 200 nm

