Supporting Information for **B911439D**

Unprecedented cubane-type silver cluster with a novel phosphinite-functionalized N-heterocyclic carbene ligand

Matthieu Raynal,^a Xianghao Liu,^a Roberto Pattacini,^a Christophe Vallée,^b Hélène Olivier-Bourbigou^b and Pierre Braunstein*^a

de Strasbourg, 4 rue Blaise Pascal, F-67070 Strasbourg Cedex, France. E-mail:

<u>braunstein@chimie.u-strasbg.fr</u>; Fax: +33 390 241 322.

⁻ Crystal structure determination of 4 (Fig. S-1)

⁻ NMR spectra of compounds 1-4.

^a Laboratoire de Chimie de Coordination, Institut de Chimie, UMR 7177 CNRS, Université

^b IFP-Lyon, Rond Point de l'Echangeur de Solaize, BP3, 69360 Solaize.

Crystal structure determination of 4.

The two independent molecules show a very similar structure. Their overlapped structures (blue and red spheres) are shown below (Fig. S-1).

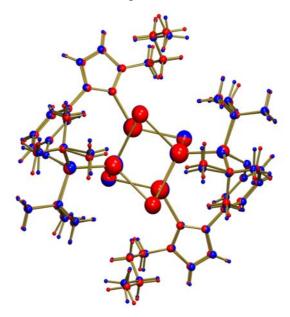


Fig. S-1. View of the overlapped structures of the two independent molecules of **4** which show a very similar structure.

NMR spectra of compounds 1-4.

