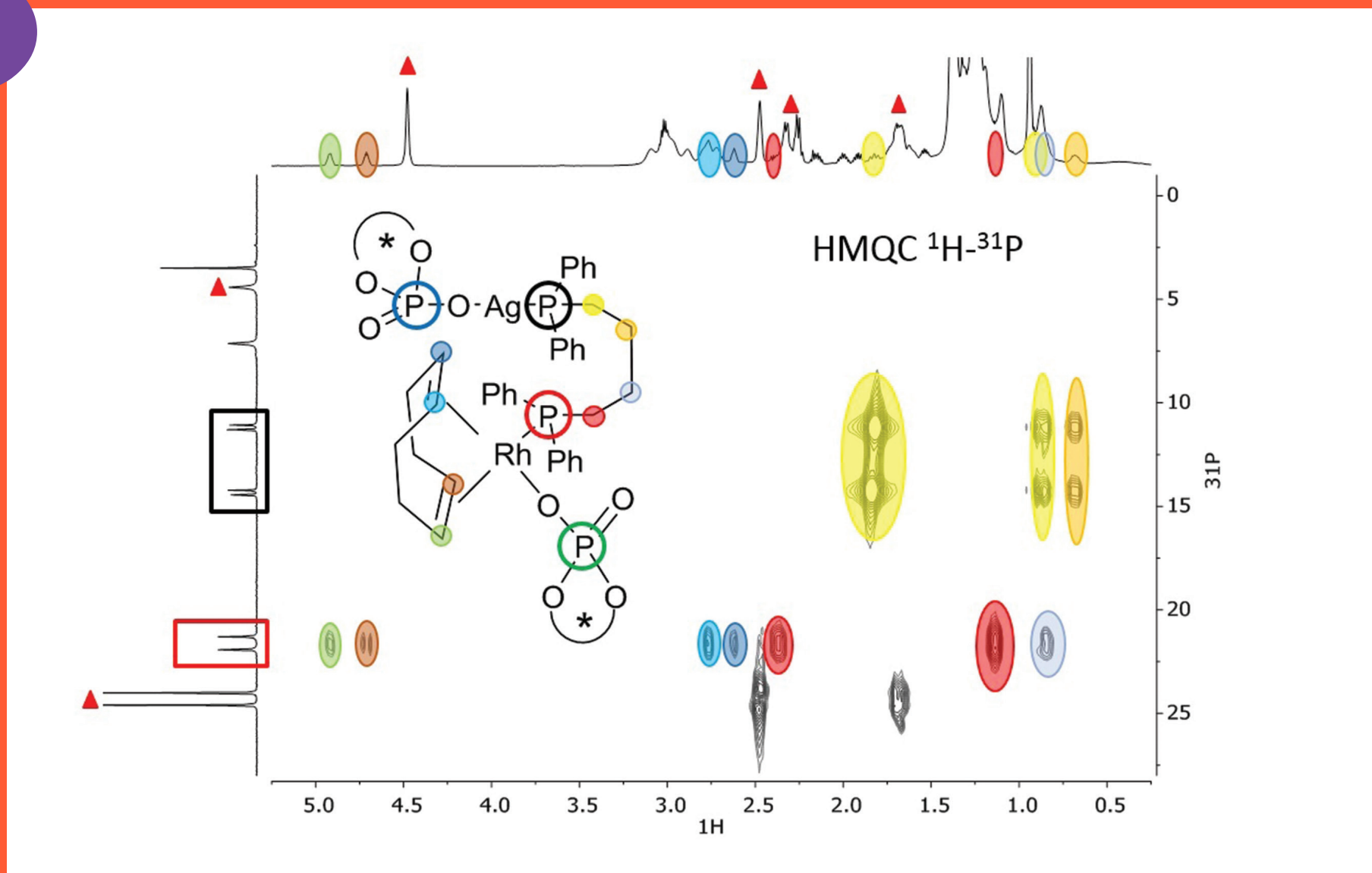




# nmr is science



*Bimetallic [Rh(cod)(dppb){(S)-TRIP}{Ag(S)-TRIP}]*

**Elsa Caytan, PhD, 2013**

Institut des Sciences Chimiques de Rennes | Université de Rennes 1

**Field strength:** 600 MHz

**Why is this your favorite spectrum?**

With this  $^1\text{H}$ - $^{31}\text{P}$  HMQC spectrum the bimetallic [Rh(cod)(dppb){(S)-TRIP}{Ag(S)-TRIP}] reveals as a highly dissymmetric species. Structure determination was very challenging and involved a lot of heteronuclear NMR experiments, such as  $^1\text{H}$ - $^{31}\text{P}$  HMQC,  $^1\text{H}$ - $^{109}\text{Ag}$  HMQC,  $^1\text{H}$ - $^{103}\text{Rh}$  HMQC,  $^{31}\text{P}$ - $^{103}\text{Rh}$  { $^1\text{H}$ } HMQC, ROESY, EXSY, DOSY... The most exciting project I took part in so far!

M. Barbazanges, E. Caytan, D. Lesage, C. Aubert, L. Fensterbank, V. Gandon, C. Ollivier, Chem. Eur. J. 2016, 22, 8553 – 8558 - DOI : 10.1002/chem.201601188