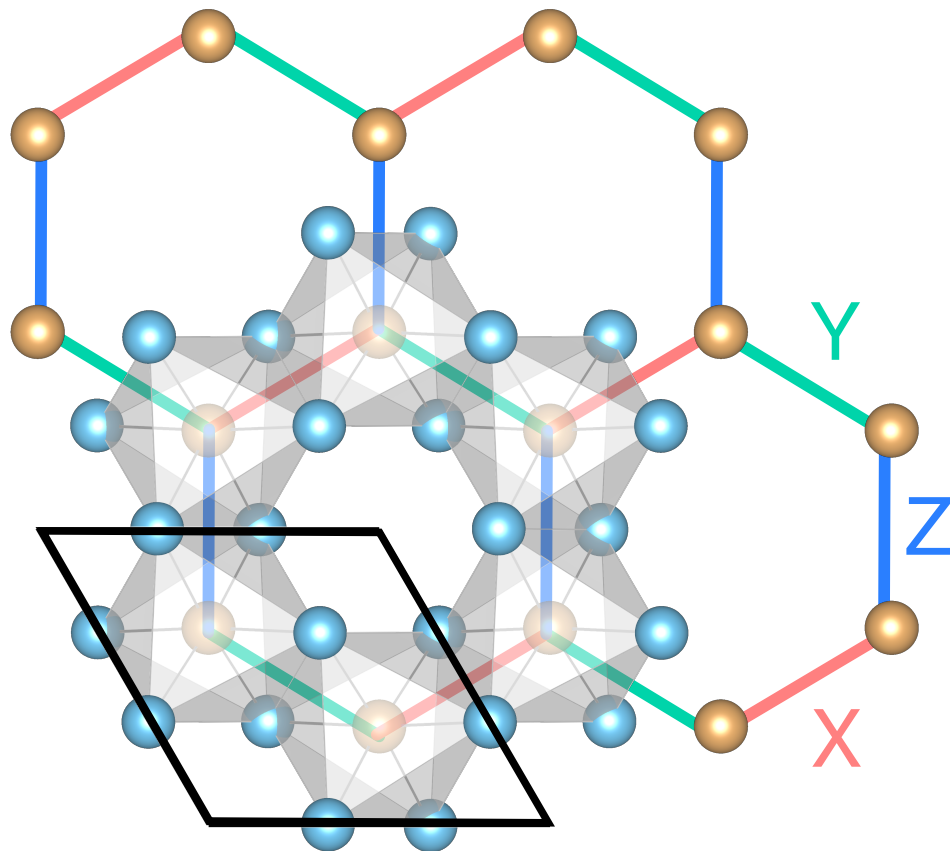
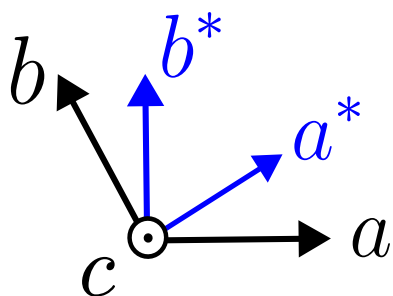


a

● X (Cl, Br, I)

● Ru

**b**

Cl

Br

I

Ground state

Zigzag

QSL?

c