

# SINGLE-CRYSTAL X-RAY ANALYSIS

## BRUKER D8 QUEST

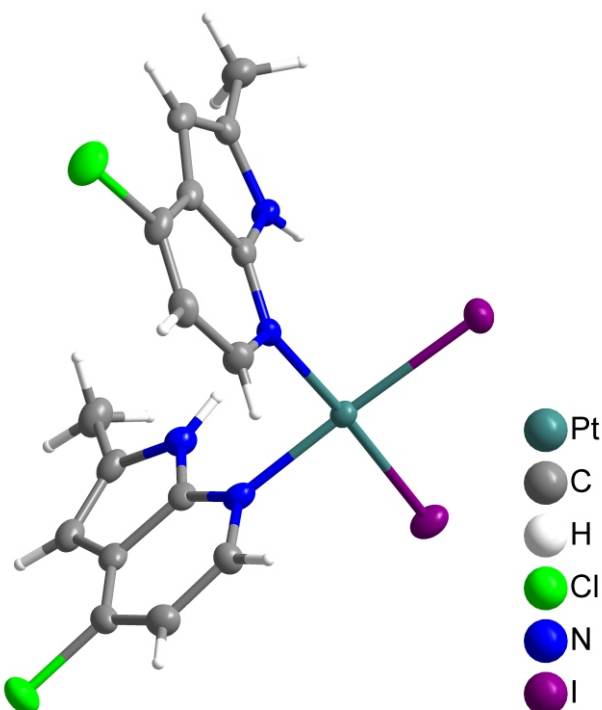
Single-crystal X-ray diffraction analysis is a non-destructive analytical technique which provides information about the crystal structure of the studied single-crystallites. The method is based on interference of the X-rays and electrons in the atoms of the crystal lattice under condition of a periodical arrangement of the atoms.

## ACQUIRED INFORMATION

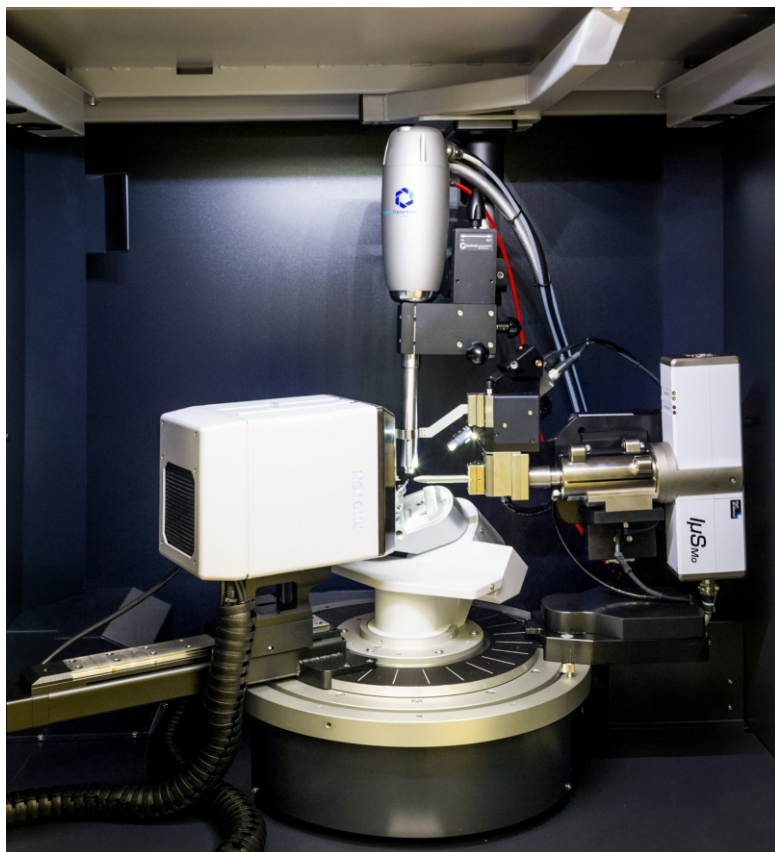
- > Determination of molecular and crystal structures
- > Measurements within the temperature range from 90 to 300 K

## SAMPLE TYPES

- > Single-crystals



Molecular structure of mononuclear *cis*-[Pt<sub>2</sub>(L)<sub>2</sub>] complex (L = 2-methyl-4-chloro-7-azaindole) determined from the single-crystal X-ray diffraction experiment



Diffractometer D8 QUEST for a single-crystal X-ray analysis

## MODES, CONDITIONS AND PRECISION

- > Size of the single-crystals: from 0.05 to 0.2 mm
- > High / low temperature measurements (from 90 K to 300 K)
- > PHOTON 100 CMOS detector

DETAILED INFORMATION ON REQUEST



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