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Title: Synthesis and crystal structure of nitrosoruthenium complexes *cis*-[Ru(NO)Py₂Cl₂(OH)] and *cis*-[Ru(NO)Py₂Cl₂(H₂O)]Cl. Photoinduced transformations of *cis*-[Ru(NO)Py₂Cl₂(OH)] *Author(s):* Alexander N. Makhinya,* Maxim A. II`in, Ruslan D.Yamaletdinov, II'ya V. Korolkov, Iraida A. Baidina



Figure S1. Packing of structural units in the crystals of 1a and 1b as viewed along the axis y.



Figure S2. Packing of structural units in the crystal of 2 as viewed along the axis *x*.



Figure S3. Infrared spectra of 1a and 1b.



Figure S4. NMR ¹H spectrum of *cis*-[Ru(NO)Py₂Cl₂(OH)] (1a or 1b) in DMSO.



Figure S5. Infrared spectrum of *cis*-[Ru(NO)Py₂Cl₂(H₂O)]Cl (**2**).





Table S1. Optimized geometries of different states for *cis*-[Ru(NO)Py₂Cl₂(OH)].