

During the HS-4563 experiment we have demonstrated that the new Pilatus detector installed recently at SNBL allows one to collect the diffraction data even from the low scattering crystals of beta-alanine in less than an hour. After two days of work (being the first users at SNBL to test the new experimental set-up), we found the unit cell for phase II and have preliminary refined the structure in the isotropic approximation. The data completeness and redundancy were, however, not sufficient, to get a structural model in the anisotropic approximation. A modification of the data collection strategy (which will now become possible at the SNBL with the installation of a κ -goniometer instead of a simple ϕ -rotation of the cell) will enable this improved measurement, thus providing the data sufficient for getting a structural model with required precision of the intermolecular distances and intramolecular conformations, which are the main focus of the study. We therefore apply for a beam-time in a new round of experiments, in order to complete the already started research project (improvement of data for phase II, data for phases III and IV), to bring it to a publication.