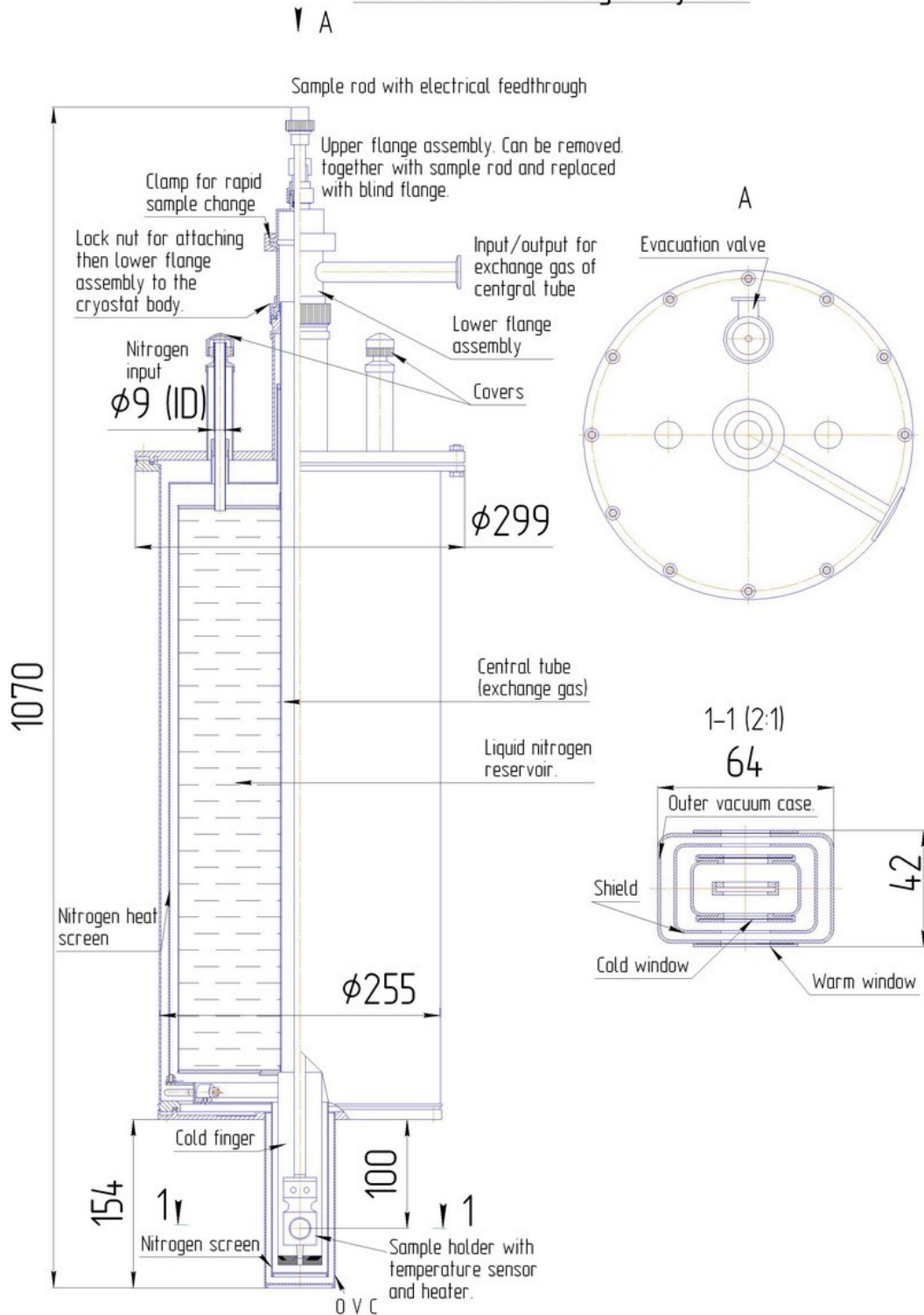


# Nitrogen cryostat

The nitrogen cryostat is applied for optical and mossbauer investigations in the long no nitrogen refill regime. Sample cooling is realized by means of heat exchange between working cell and cryogenic reservoir. Temperature regulation and control are made by using the chain consisting of a heater and a temperature sensor. Horizontal windows are setted in the bottom of the cryostat. For mossbauer measurements, the cryostat can be provided with mylar windows. For optical measurements, windows are made from a transparent to necessary wavelength material.

Construction of nitrogen cryostat



## Specifications:

- volume of the nitrogen reservoir, dm <sup>3</sup>	18
- working temperature range, K	78-300
- duration of continuous work of the cryostat in the temperature range 78-80 K with once nitrogen flooding, days	15
- internal section of the working cell, mm	18x38
- warm windows diameter, mm	18
- cool windows diameter, mm	16

Prof. Georgii Levchenko Tel:++38 062 337 96 99  
FAX:++38 062 33 90 18  
<mailto:levch@levch.fti.ac.donetsk.ua>