



New stages of the HybriLIT development

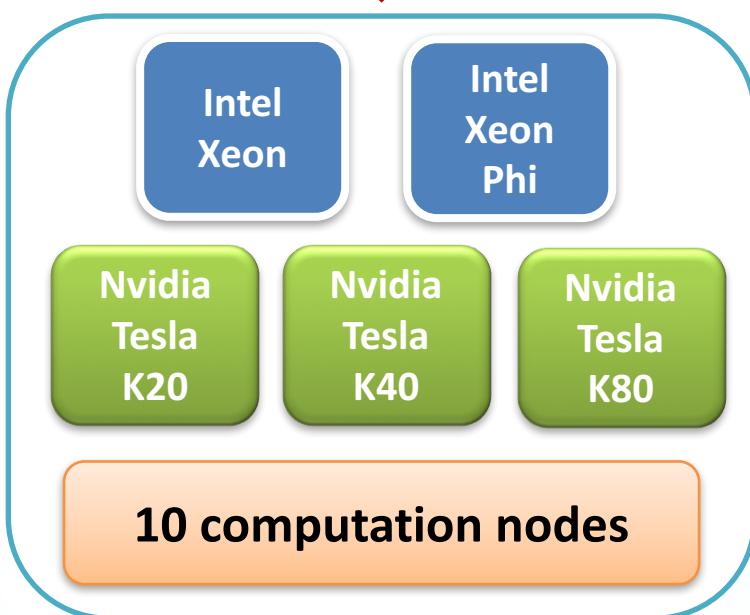
Zuev M., Matveev M., Podgainy D., Streltsova O., Torosyan Sh.

HybriLIT heterogeneous platform

Unified software and information environment

Training and testing polygon
“HybriLIT”

“Govorun” Supercomputer



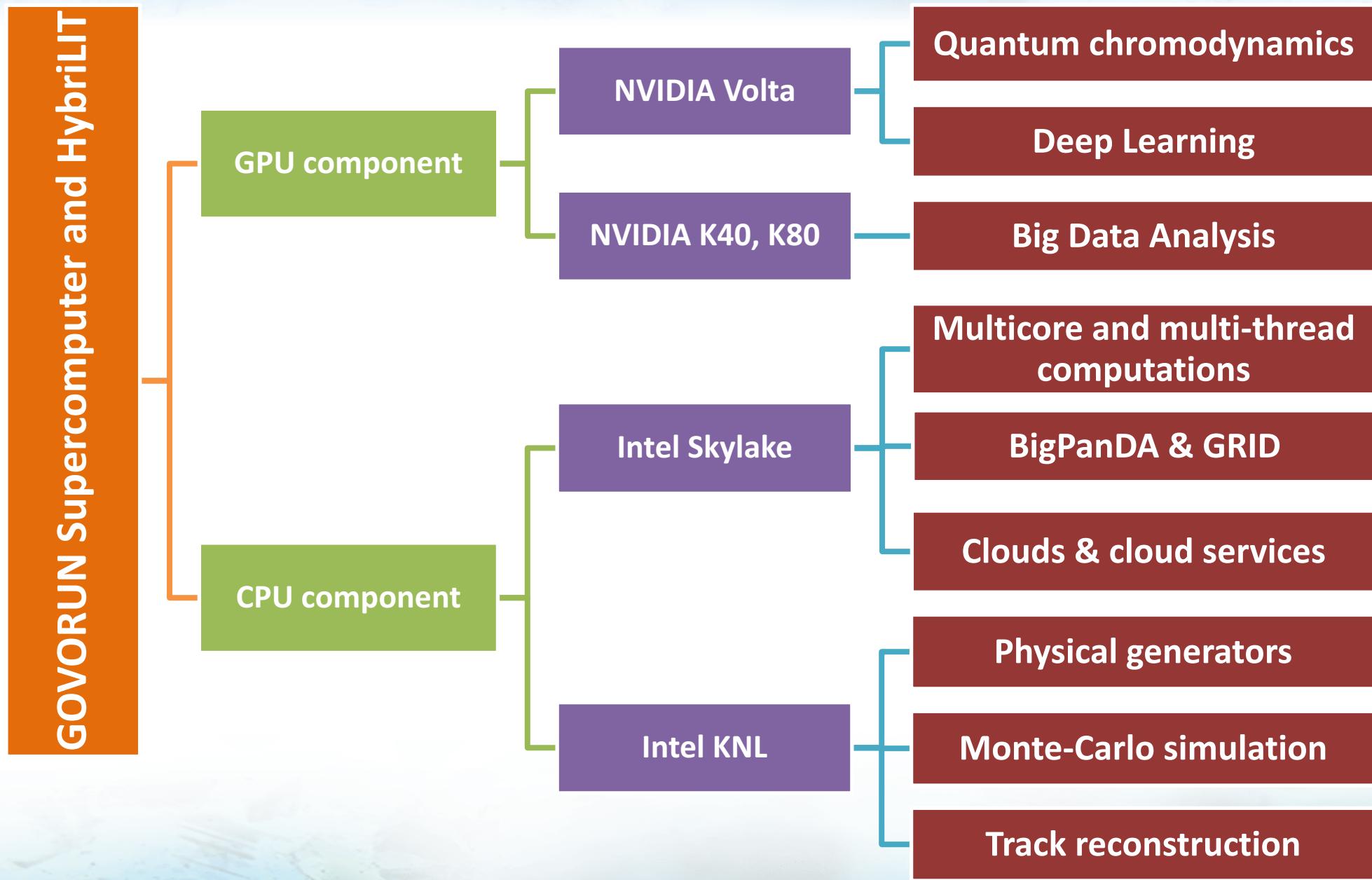
Skylake
1440 cores

KNL
1512 cores

Volta
205 000 CUDA cores
26 000 Tensor cores
K40, K80
78 000 CUDA cores

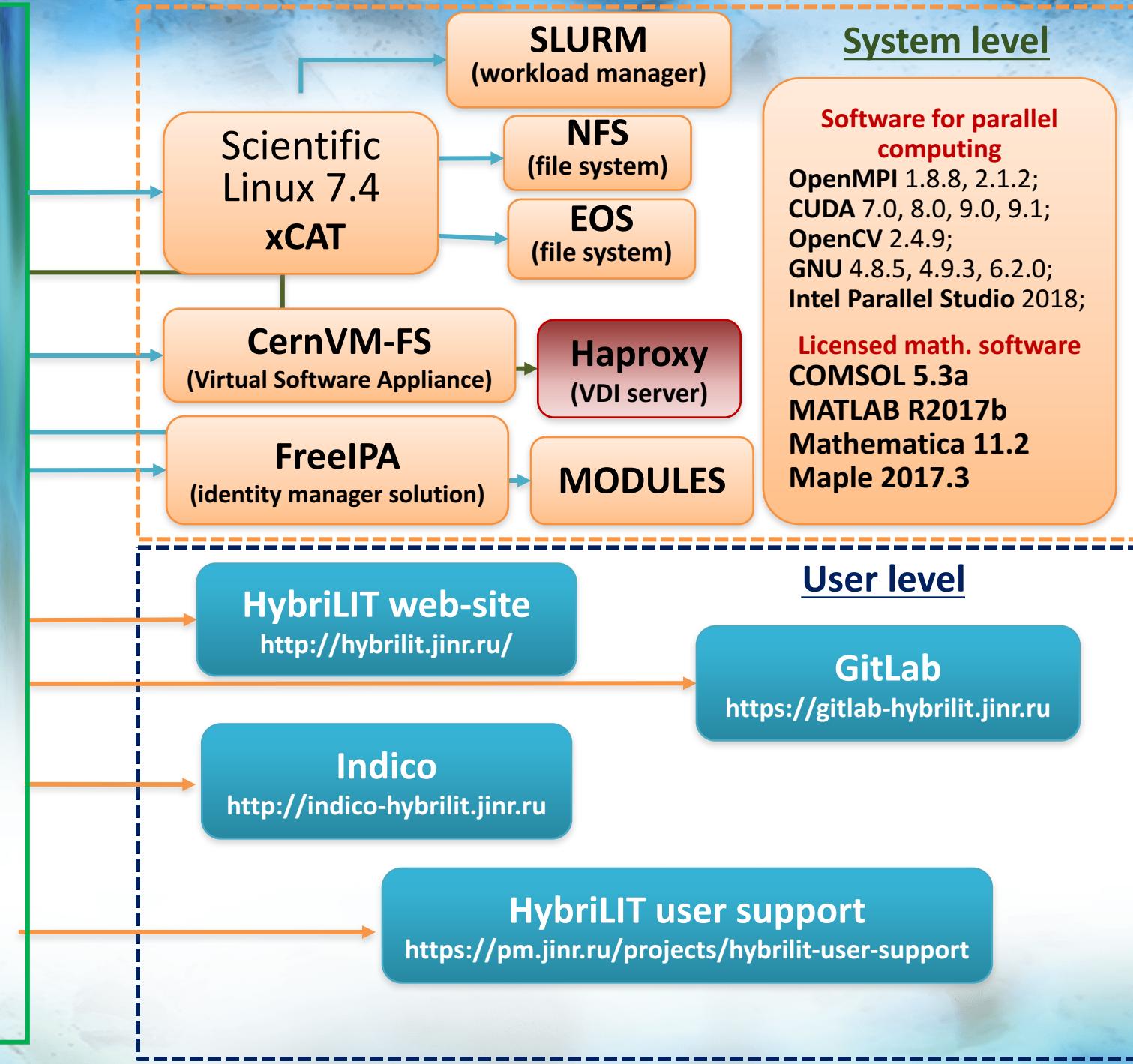
Peak Performance: 1 PFlops

Heterogeneous computations in JINR

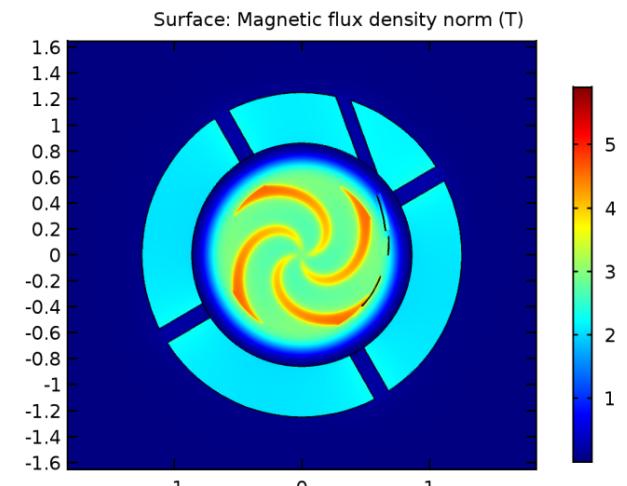
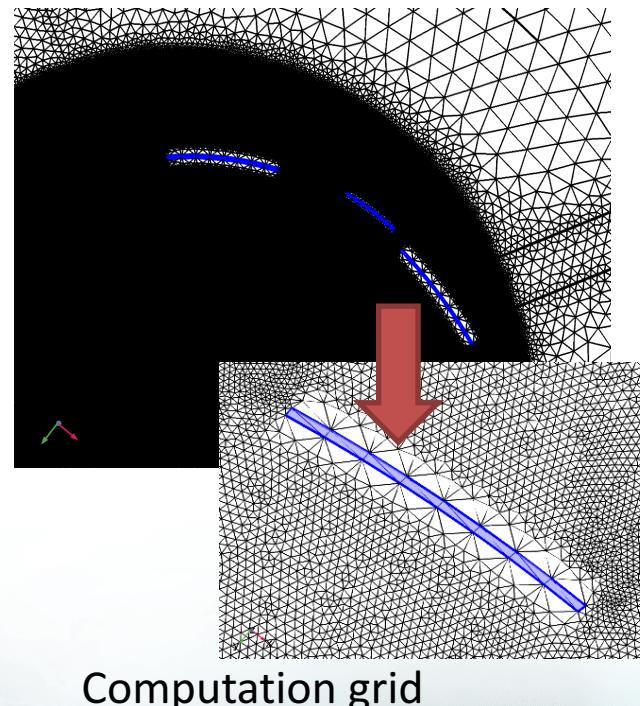
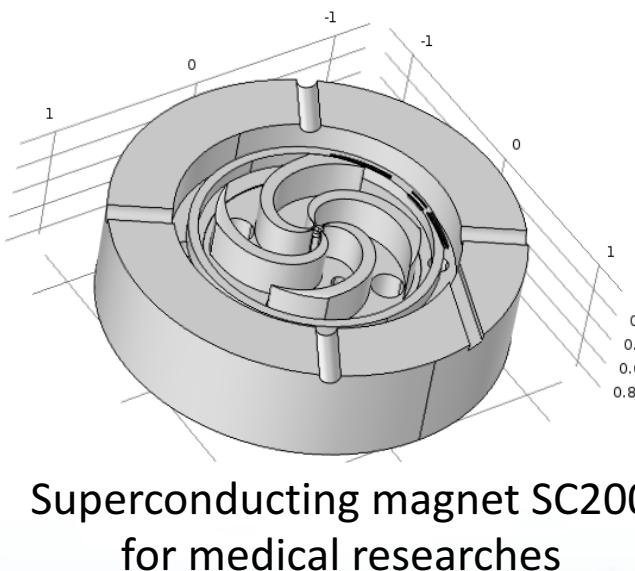
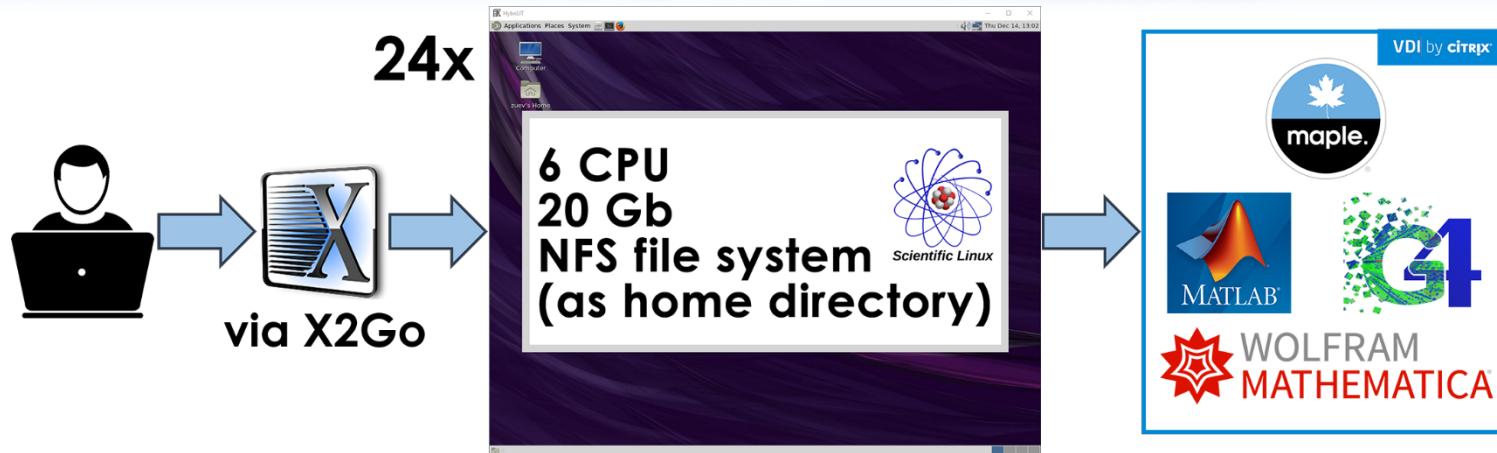


HybriLIT

Software and Information Environment



HLIT-VDI – system of virtual desktop interfaces



VM characteristics

Total number of VMs is **48**.

The main characteristics of VMs:

- *20 Gb RAM/VM*
- *6 CPU/BM*
- *NFS as home directory*

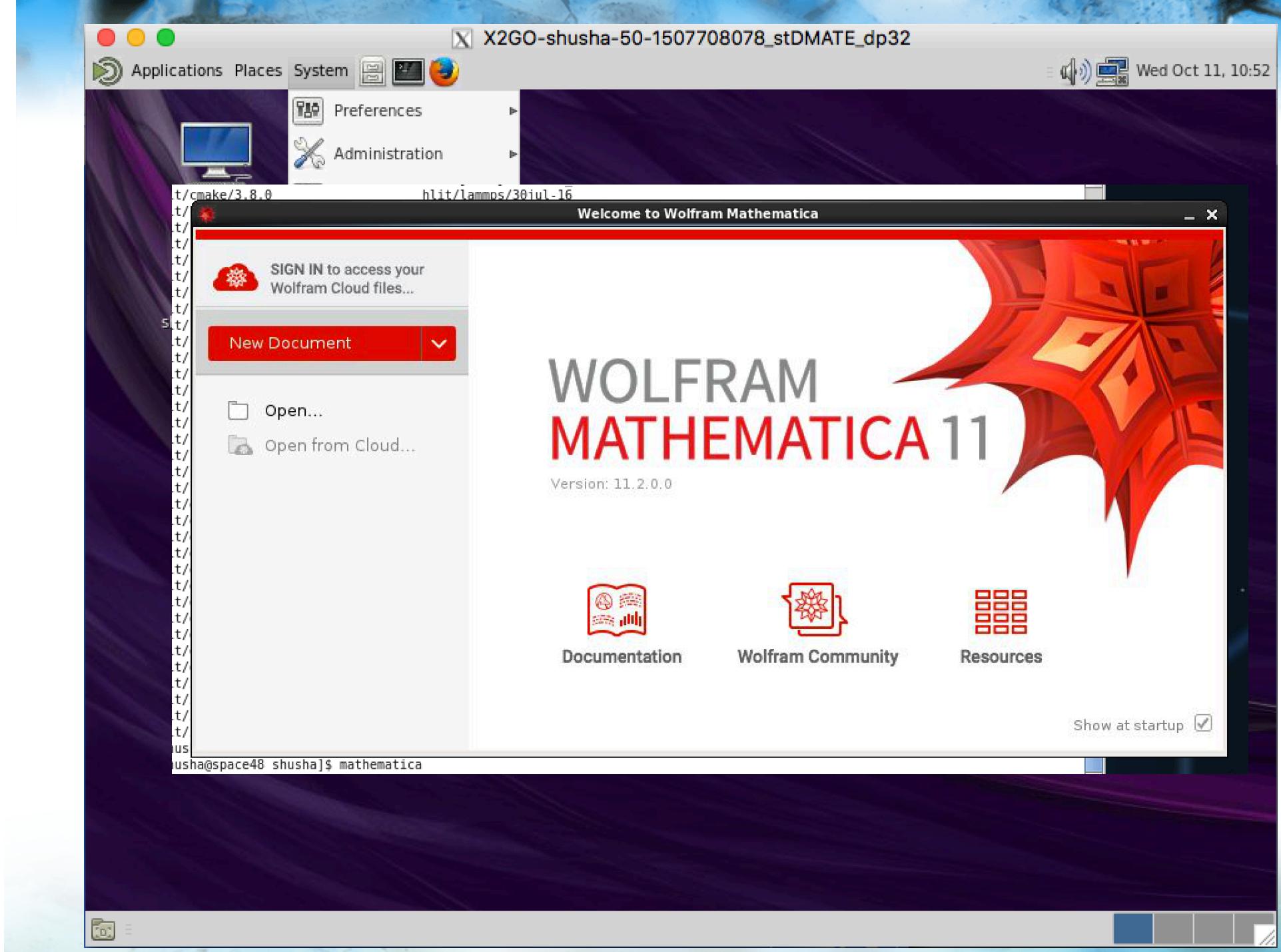
Login requirements:

- Login credentials for the HybriLIT
- Client settings (host name, session type, etc.)

Required software may be loaded using this command:

```
$ module add <name_of_package>
$ <name_of_package> -- to launch the application
```

Some software packages are available with GUI support (e.g. Mathematica, Maple, Geant4, Wolfram Mathematica, etc).



Computation part

Computation may be carried out using

VM resources

resources of the HybriLIT cluster





Questions?