Queuing an Observation Schedule

> Working in the scheduling directory is strongly discouraged. It will very likely lead to frustration and spam for any other users on the ilofar account. It is advised to prepare schedules on your local machine or in the temp folder.

Once you have used the previous two guides to build a schedule file, you can then send it to be queued for observations. The schedule should be moved into directory at `/home/ilofar/scheduling/schedules` by whatever is determined the preferred method. On the `ilofar` user, the folder can be quickly accessed using the `sched` alias.

Once the file is in the folder, the monitoring service should notify you and pick up the file. It will be validated with the `quicksched.py` script, and then either moved to one of the `prepared` or `failed` directories, depending on the output. In the case of failure, the logs should be piped to you, or they will be accessible in the `logs` folder inside the scheduling directory. The file can be modified in the failed directory, and moved back one directory once you believe the issue is resolved.

A second monitoring process check for any files in the `prepared` directory initially when the files are moved in to the directory, then every 4 hours afterwards. If a schedule starts within the next 24 hours, it will be queued for execution, after which the `interrupt.sh` script will be needed to exit the opened shells, screens and tmux's before submitting a replacement schedule.

```
dmckenna@americano:~/git/scheduling$ rsync -avhP ./sched_2023-06-06.txt
~/scheduling/schedules/tmp/sched_2023-06-06.txt
dmckenna@americano:~/git/scheduling$ ssh ilofar@lgc

ilofar@LGC:~$ sched
ilofar@LGC:~/scheduling/schedules$ cat ./tmp/sched_2023-06-06.txt
2023-06-06T07:00 - 2023-06-06T13:29 ;[J5n357]
2023-06-06T13:30 - 2023-06-06T13:59 ;[Crab_PSR [1.4596732110242794, 0.3842252837309499, 'J2000']
ilofar@LGC:~/scheduling/schedules$ mv ./tmp/sched_2023-06-06.txt ./
ilofar@LGC:~/scheduling/schedules$
Message from ilofar@LGC on (none) at 15:16 ...
Attempting to parse new input schedule at /home/ilofar/scheduling/schedules/sched_2023-06-06.txt
EOF
```

```
Message from ilofar@LGC on (none) at 15:16 ...
/home/ilofar/scheduling/schedules/sched_2023-06-06.txt: Success; moving schedule to the
/home/ilofar/scheduling/schedules/prepared/ directory.
EOF
<ENTER>
ilofar@LGC:~/scheduling/schedules$
```