## Connecting to the cluster

ssh -p 30722 <yourlastname>@sirocco.bcm.umontreal.ca

- take note of special port for connection (30722)
- -x / -y option: allows graphical display
- bandwith limit: use cluster mostly for non-graphical tasks
- exceptions: gnuplot, njplot
- change your password!
- passwd command

## Organize your account

### import useful files

- cp -r /opt/revbayes/examples /.
- cp -r /opt/revbayes/tutorials /.

#### tutorials folder

- handouts, data, example scripts
- will be regularly updated over the week

# Copying distant files

#### from local machine to cluster

- example:

```
scp -P 30722 gtr_clock.Rev
nl@sirocco.bcm.umontreal.ca:revbayes/examples/
```

r option: recursive copy of entire directories

#### from cluster to local machine

- scp -P 30722
   <username>@sirocco.bcm.umontreal.ca:<path/file>
   <local\_path>
- example:

```
scp -P 30722 -r
nl@sirocco.bcm.umontreal.ca:revbayes/examples .
```

## Submitting jobs

### interactive shells: the qrsh command

- qrsh starts a (non-graphical) interactive shell on exec. host
- from there, you can run revbayes (or anything else)
- once finished, exit the shell

### non-interactive jobs

- qsub <script>
- qsub -b y <command> (should be a non-interactive job)
- qstat -f: check job status
- qdel <job\_id>, qdel <job\_name>: stop specified job
- qdel -u <my\_username>: stop all your jobs



### Rules and good practices

- change your password!
- don't run revbayes directly from the master node
- not too intensive graphical outputs are allowed on master
- don't submit more than 3 jobs (including interactive sessions)
- use cluster only for revbayes-related work
- cluster only available until this Sunday (Aug 31)
- accounts will be de-activated afterwards (by Sept 5)
- so, don't forget to copy everything somewhere else before then