

# ULTRACAM shutdown procedure

1. Ask the ULTRACAM team if the focal-plane slide has been homed. Do not proceed until they have confirmed this.
2. **LEAVING THE CCD TEMPERATURES AT -40 DEG C**, turn off the peltier temperature controllers and SDSU controller at the rear of the rack (and check the peltier displays go off to make sure). With all cooling turned off, the chips will gradually warm up to ambient temperature at a safe rate.
3. Turn off the water chiller.
4. Shut down the rack PC using the sliding monitor and keyboard in the rack. To do this, simultaneously press the *ctrl-alt-del* keys at the UCAM4 login prompt. This will cause the rack PC to shut down and then restart. Before it restarts, hit the power button on the front of the rack PC to power it down.
5. Shut down the imedia PC by pressing the toggle switch on the front of the unit - the unit will automatically power down after approximately 30 seconds.
6. Turn off power to the entire ULTRACAM electronics rack by switching off the green illuminated switch on the mains socket strip at the top of the rear of the electronics rack.
7. Note: Do not shut down the data reduction PC in the NOB unless instructed to do so by the ULTRACAM team.