A start on running Galaxy DRMAA jobs as different users

Dr Paul Smith, Principle Data Architect, Illumina Inc.
Need to be able to run jobs as the user that requested it

- Allows usage tracking
- Allows job priority
- Allows data access control
- Allows the use of external space monitoring tools
Need to change user

- Program needs to be able to change user
- On a single system this generally means a SUID script
- SUID scripts are a potential security hole
- Could use an existing program that has SUID functionality e.g. SSH, Apache
Most of the work already done

- Gordon Assaf seems to have already done most of the work. 

- To try this out:
  1. import the patch
  2. edit your 'universe_wsgi.ini'
  3. edit /etc/sudoers to allow the script (drmaa_external_runner.py) to run as root
Final part left as an exercise

- The logic to actually select which user to use is not implemented.

```python
def get_qsub_user(self, job_wrapper):
    """ Returns the UserID (or Username) that should be used to execute the job. """
    #TODO:
    #add some logic to decide on an SGE user for the given job.
    return os.getuid()
```

- Just needs finishing 😊