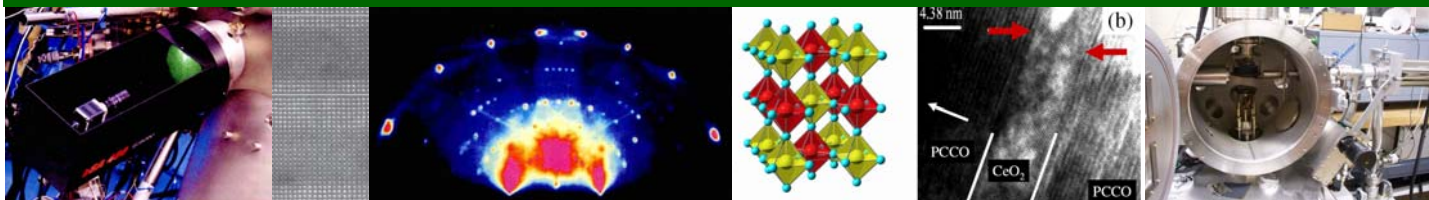


Undergraduate research - Summer 2010

Heterostructures & Superconductivity

Proximity effect and novel states of matter at interfaces



Project : Growth and study of oxide-based heterostructure with atomic-layer-controlled deposition using a RHEED system targeting the onset of new electronic behaviours at interfaces. In particular, we will try to induce superconductivity in a combination of materials that cannot become superconducting separately.

Note : This project could lead to a M.Sc. or Ph.D. thesis supervision.

Where?

Département de physique, U. de Sherbrooke

Supervision : Pr Patrick Fournier

More info at : <http://www.physique.usherbrooke.ca/fournier>

NSERC undergraduate scholarship available (criteria):

- * One year left to your undergraduate program;
- * Maintained a grade superior to B;

Monthly salary : between 1600 and 2000\$/month



For application, please send before March 3rd 2010:

1) A resume; 2) a copy of your most recent official transcript; 3) the name of one reference (professor); 4) a letter of motivation.

E-mail: patrick.fournier@usherbrooke.ca

