Plan for PURE Math 2012 Seminar

Week 3

Monday: Distance coordinates and configuration spaces
Tuesday: Central configurations in the 3- and n-body problems
Wednesday:
Thursday:

PURE Math 2012 - Seminar
Week 3 Discussions - Background on Central Configurations

Day 1: Distance coordinates and configuration spaces

Background

We have seen in lecture that one way to describe configurations of n points $p_1, \ldots, p_n$ in a Euclidean space up to Euclidean motions (translations and rotations) is to introduce the mutual distances $r_{ij} = \|p_i - p_j\|$ for $1 \leq i < j \leq n$ as *coordinates.*