# Project 1: Advances in the interpretation of intermolecular and surface forces

Please choose one of these 2 articles:

[1. Rodrigues, M. S., Costa, L., Chevrier, J. & Comin, F. System analysis of Force Feedback Microscopy. Journal of Applied Physics 115, 054309 (2014).](http://scitation.aip.org/content/aip/journal/jap/115/5/10.1063/1.4864127)

[2. Rodrigues, M. S., Costa, L., Chevrier, J. & Comin, F. Why do atomic force microscopy force curves still exhibit jump to contact? Applied Physics Letters 101, 203105-203107 (2012).](http://scitation.aip.org/content/aip/journal/apl/101/20/10.1063/1.4766172)

* We will divide into two groups. One group will read Article 1 and another Article 2. We will ask you next week to choose one or the other. If the groups aren’t even we will make them.

**BARE** in mind that we might use these two groups for the rest of the course for the rest of the projects. If there are any issues and someone wants to change group, Dr Chiesa or Dr Santos need to be notfied beforehand.

* During the first week of October you will:
* have 10 minutes (each group) for an oral presentation.
* Only one person in thr group will present.
* Then there will be 10 minutes of questions. The class can ask anybody in the team to answer.
* You (the group) will present a single document including: 1) 50-100 words of abstract describing your article AND OVERALL topic. 2) 100-200 words of introduction to the topic. It doesnt have to be about this paper only, but about the topic of the article. 3) 800-1200 words of body summarising the topic and article. 4) Conclusions of 50-150. 5) the document needs to inlcude 5-15 references, some not included in the articles you read. This will count 5% of the final grade BUT IS IS compulsory. You will have to do this project at the end of teh course, if needed, if you want to pass the course.
* Finally, if we note someone is not answering any question, and doesn’t do any work, this person will then become a separate and individual group for the rest of the course.
* **This project SHOULD NOT involve more than 5 hours reading and maybe 5 generating the project. You can help each other and not all of you have to do everything! It is important you learn how to get infomration fast and efficiently! So don’t employ too much time!**