



Meeting report T0+12

Januray 27/28 2015

Project ANR MSDOS: ANR-13-BS03-0005



The meeting was organized in Poitiers, LIAS. T, A, E, O, F, H, Y, R, Na, Ni were present.

1. Summary of the meeting:

- Thomas talked about the equivalence of the F.M. and Roesser models using algebraic tools. See the website to get the slides of the presentation
- Yacine talked about the structural stability for nD systems (slides on the website). This is the first step for the task3 which will tackle the stabilizability problem.
- An invited session will be proposed for the next nDS conference. Papers expected for this session will be around the following subjects: 1. equivalence of the R. and F.M. models, 2. structural stability, 3. stabilization (discrete case, S-procedure), 4. uniqueness and existence of the R model, 5. possible control of an EDP via the R. model (linear case), 6. Lyapunov exponential stability (continuous case)
- PHC Polonium: it would be good to ask for a grant. The idea is to get money for W. He could then come here and give us an overview about repetitive systems.
- We have for the moment no feedback from the CIRM mini workshop proposal.
- The next report T0+18 will most likely follow these lines:
 - I) Analyse des modèles
 - Équivalence
 - Unicité et existence
 - II) Stabilité
 - Stabilité structurelle
 - Stabilité (Sprocédure)
 - Stabilité (Lyapunov)
 - III) Stabilisation
 - Cas linéaire (Olivier, Alban and co)
 - IV) EDP et stratégie de contrôle (TDS?)
 - Passer d'un Fornasini (EDP) à un modèle de R., stabiliser R. et remonter à l'EDP
 - V) Package livrables
 - Maple
 - Mathematica

2. Project planning:

- **The next meeting is scheduled for 18-19 June.**
- The next report T0+18 is due for the 20th of July.

3. Website

- As a reminder, the website can be found at this address: <http://www.lias-lab.fr/perso/nimayeganefer/doku.php?id=welcome>
- I've updated the meeting page and listed all the reports and slides on this page.

And may the umbrella power be with you!