

# Roadmap of development: the next 2+ years

# Forum

users: ~600

topics: ~1000

messages: ~3000

mverstra	356
pouillon	195
jzwanzig	176
Alain_Jacques	158
gonze	75
ilukacevic	71
gmatteo	60

# Beautification: Tutorials

- \* Analysis Tools (Visualization): rewrite (Martin (Vesta) and Damien (vsim))
- \* Spin: rewrite (Eric B.)
- \* Parallel: rewrite (François Bottin)
- \* GW: rewrite (Martin and Matteo)
- \* Tools in ABINIT: create
  - cif to ABINIT (Joe)
  - AbinitBandStructureMaker.py (Michel)
  - AbinitStructureViewer.py with Jmol (Michel)
  - ...

# Beautification: Code

- \* Object oriented programming (Xavier, Marc Torrent, Matteo, Damien, Micael)  
Goal: "Study the possibility to include Objects in ABINIT to simplify the high level subroutines (ex: higher than 67\_commun). What these Objects should be? Give 3 to 5 Objects and their respective functions and subroutines. It is possible to have no mention of PAW and MPI above 67\_common?"
  - Clean up the subroutines: gstate.F90, scfcv.F90, vtorho.F90, vtowfk.F90, cgwf.F90
  - Simplify FFT subroutine
- \* Improve failing/error messages (not assigned) macros, error id,...
- \* Rename keywords (Paul, Joe, François Jollet)
- \* Remove/comment OpenMP code (Martin)

# Beautification: web page

- \* Logo (Joe)
- \* improve presentation  
(Gian-Marco, Fabien, Razvan, Jean-Michel)
- \* include a "ABINIT features" section:  
(Michel and Bernard)
- \* wikipedia: (Joe)

# Others stuff...

- New Advisory Board members:  
Aldo Romero and John Rehr
- Next ABINIT Developer Workshop:  
most likely near Paris (Marc)
- Pseudopotentials: (Marc)
- GUI: (Flavio, should continue)