

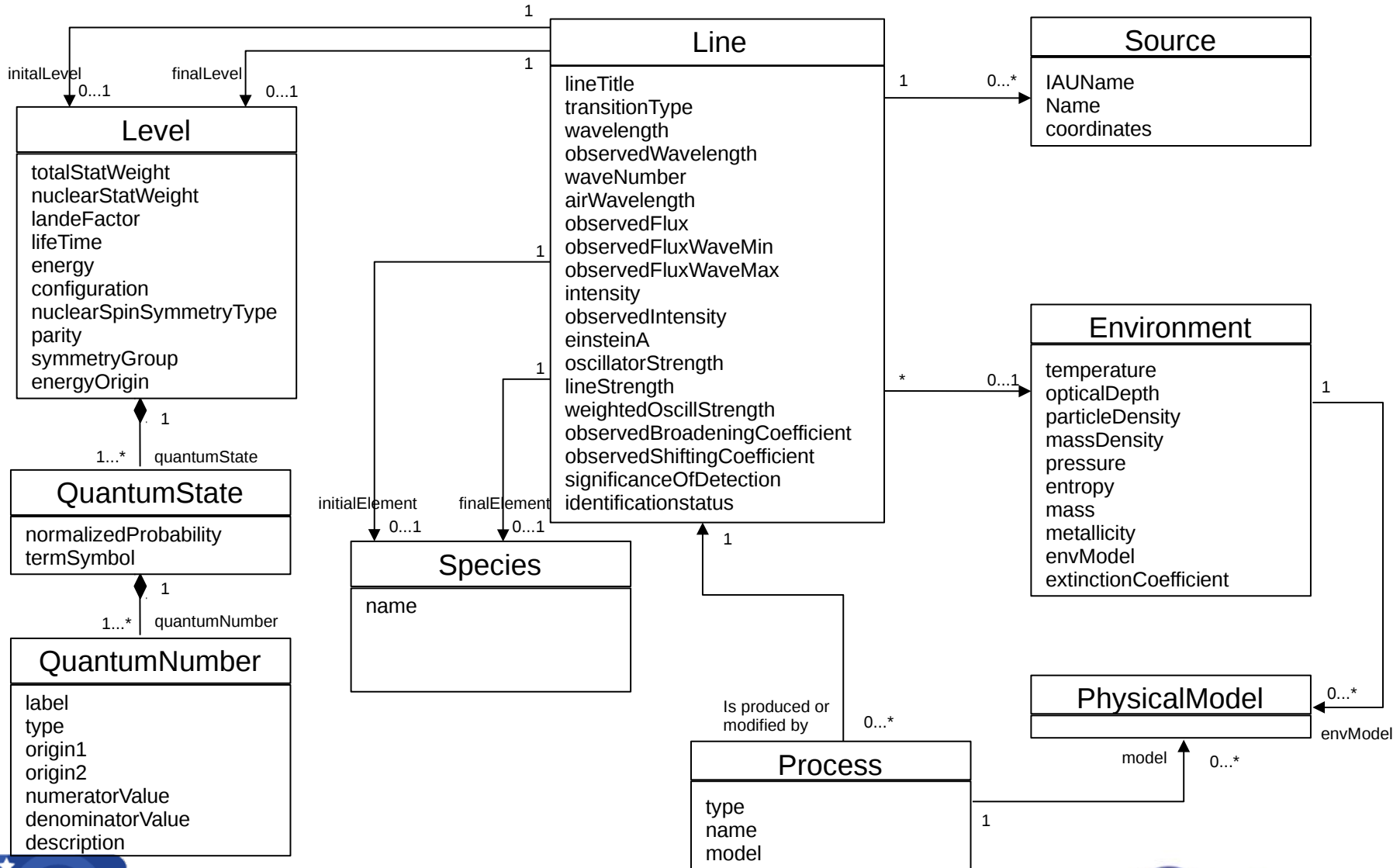
Simple Spectral Line Data Model Evolution

N. Moreau
(LERMA / VAMDC Consortium)

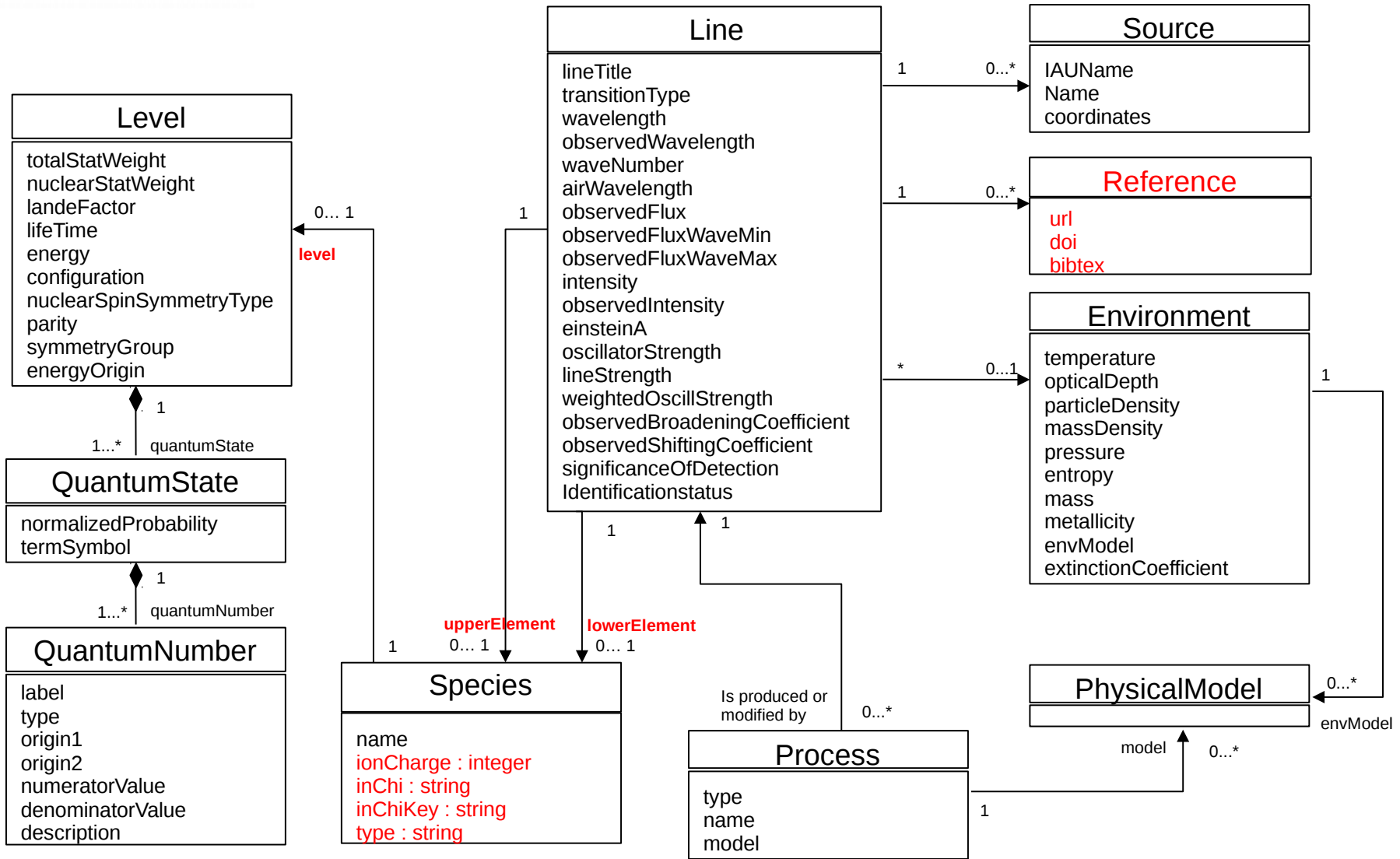
- Aiming at a convergence between VAMDC and IVOA standards for spectral lines search
- VAMDC will provide a SLAP output for its services
- SSLDM needs to be completed in conjunction with SLAP

- Bibliographic references were not defined
- Lines have initial/final levels, not compatible with upper/lower levels in VAMDC (and used in most atomic and molecular databases)
- Species definition is very limited

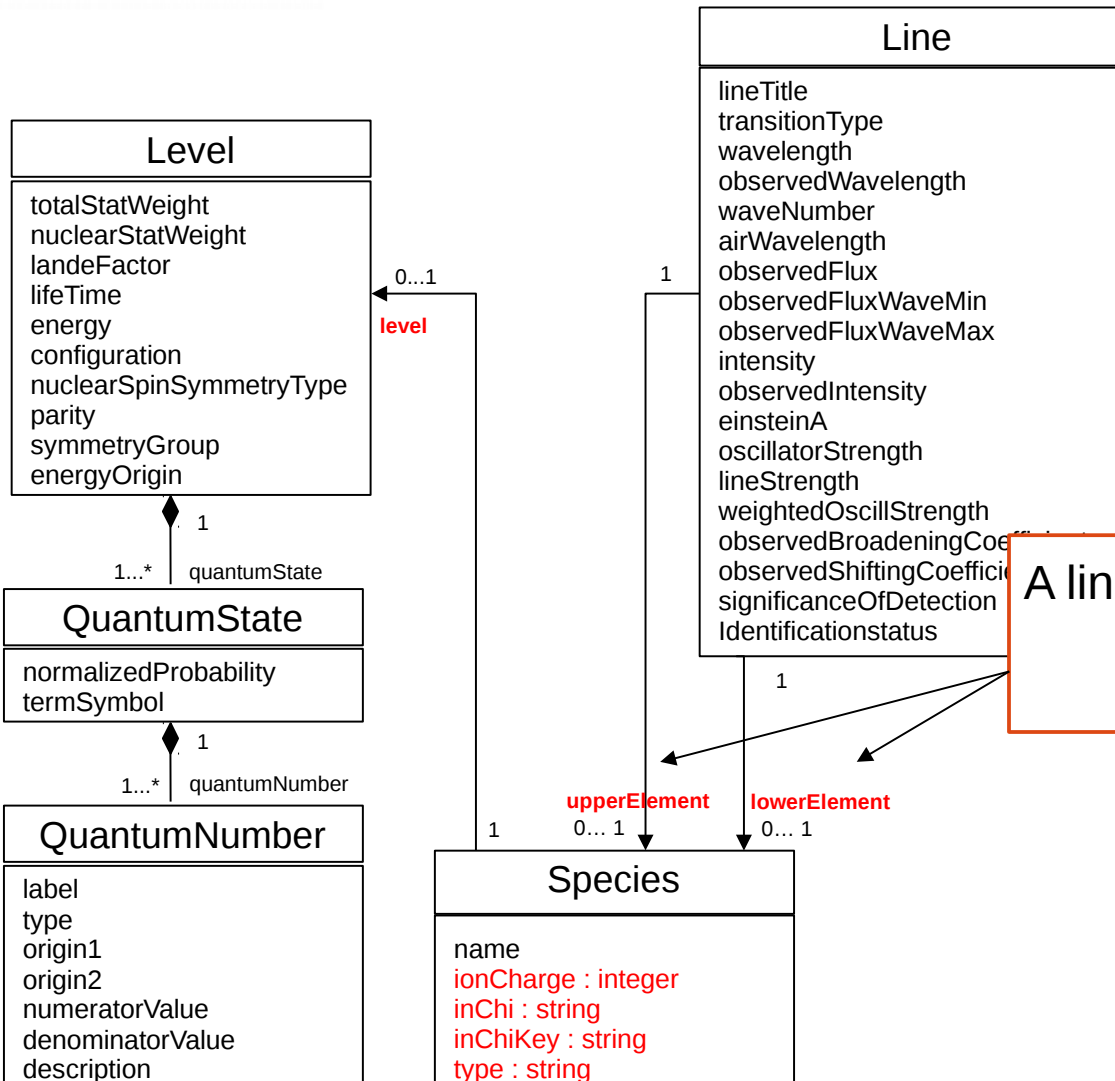
Current data model



Proposed data model



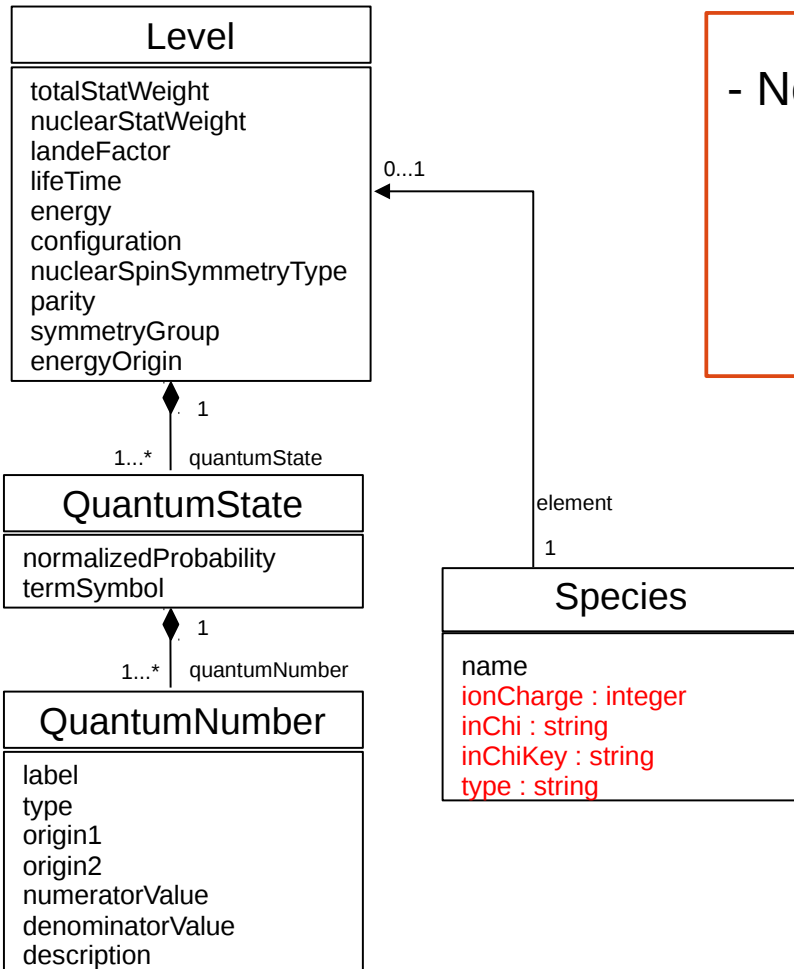
Proposed data model



A line has upper and lower elements (according to level energy)

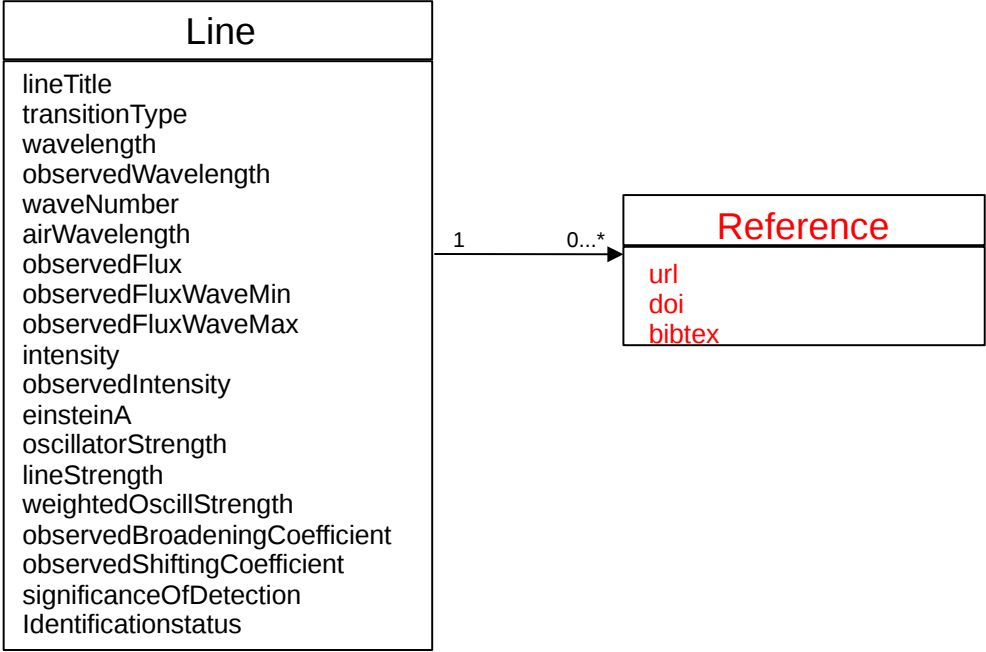
- New Species attributes :

- ionCharge
- Inchi (International Chemical Identifier)
- Inchikey (hash of inchi)
- type (atom or molecule)



Proposed data model

- A Reference object has been added
- A Line can have several references
- Preferably defined by their doi



Next step

- Submission of the document draft to the DM working group