

## ***Interactive comment on “A Universal and Multi-dimensional Model for Analytical Data on Geological Samples” by Yutong He et al.***

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We present a universal data model in this paper. The model was constructed basing on the study of geoanalytical instruments, geological samples and geoanalytical results. The model is very strong and comprehensive. The geoanalytical data which were described and stored through this model can be integrated easily and reused by geological researchers. It can be used for construction of any geoanalytical data management system, data sharing system or database by professional or amateurish developers. In the paper, the key indicators of a data model including the time efficiency, space efficiency, etc. were well tested. In my opinion, how to reuse the scientific data is a very hot issue in this time. Lots of researchers concentrated on the construction of various database, platform or system basing on different type of data.

But these data products will become the new data islands which make the data difficult to be connected and integrated. So, if we want to accumulate the data to form big data of specific scientific area, the basic study just like the data standard and data model is very significant. Even it is a hard work for an independent, but it is meaningful to promote the discussion of researchers.

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