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- Chemical speciation alone does not adequately distinguish amongst mineral dusts
- Optical properties of minerals vary substantially
- XRD provides a methodology to quantify the mineral constituency of crustal material in aerosols
- Knowledge of the mineralogy of dusts could enhance aerosol modeling

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- ${\sf X}$ rays diffraction is an appropriate techniques to perform phases identification and quantification

- Investigation at the nano scale
- XRD is a non destructive techniques, without special conditioning
- A huge of databases is available (ICDD, ICSD, COD ...)
- data modeling is a real performance for a lot of applications

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