

Updates to the PET

(PMF Evaluation Tool)

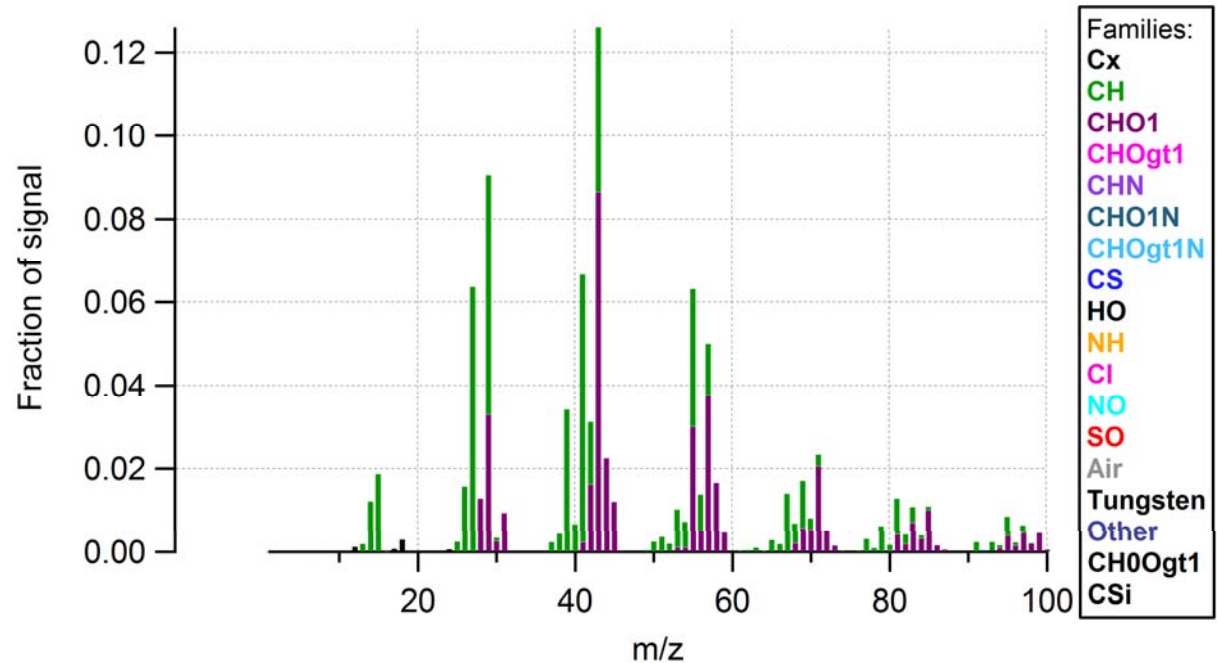
Ingrid Ulbrich & Jose-Luis Jimenez

14 Sep 2013

14th Aerodyne MS Users Meeting, Prague

Coming soon: PET v2.07 with HR features

- PMF factors graphed with HR families
- Elemental ratios for PMF factors
- Release target is mid-October

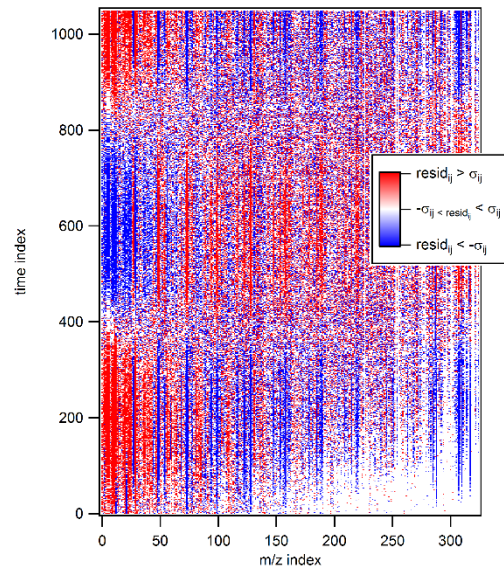


and Jill's Error Plot

- Presented by Jill
at last year's
Users Meeting

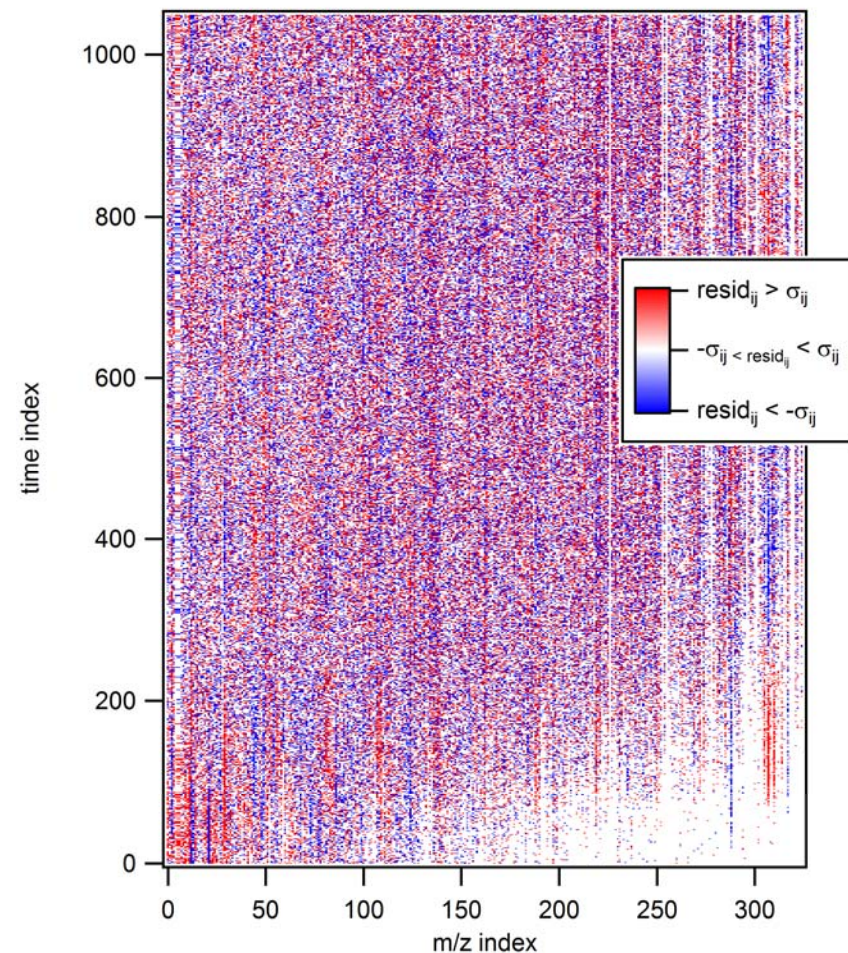
Bad fit!

Residuals are not randomly distributed

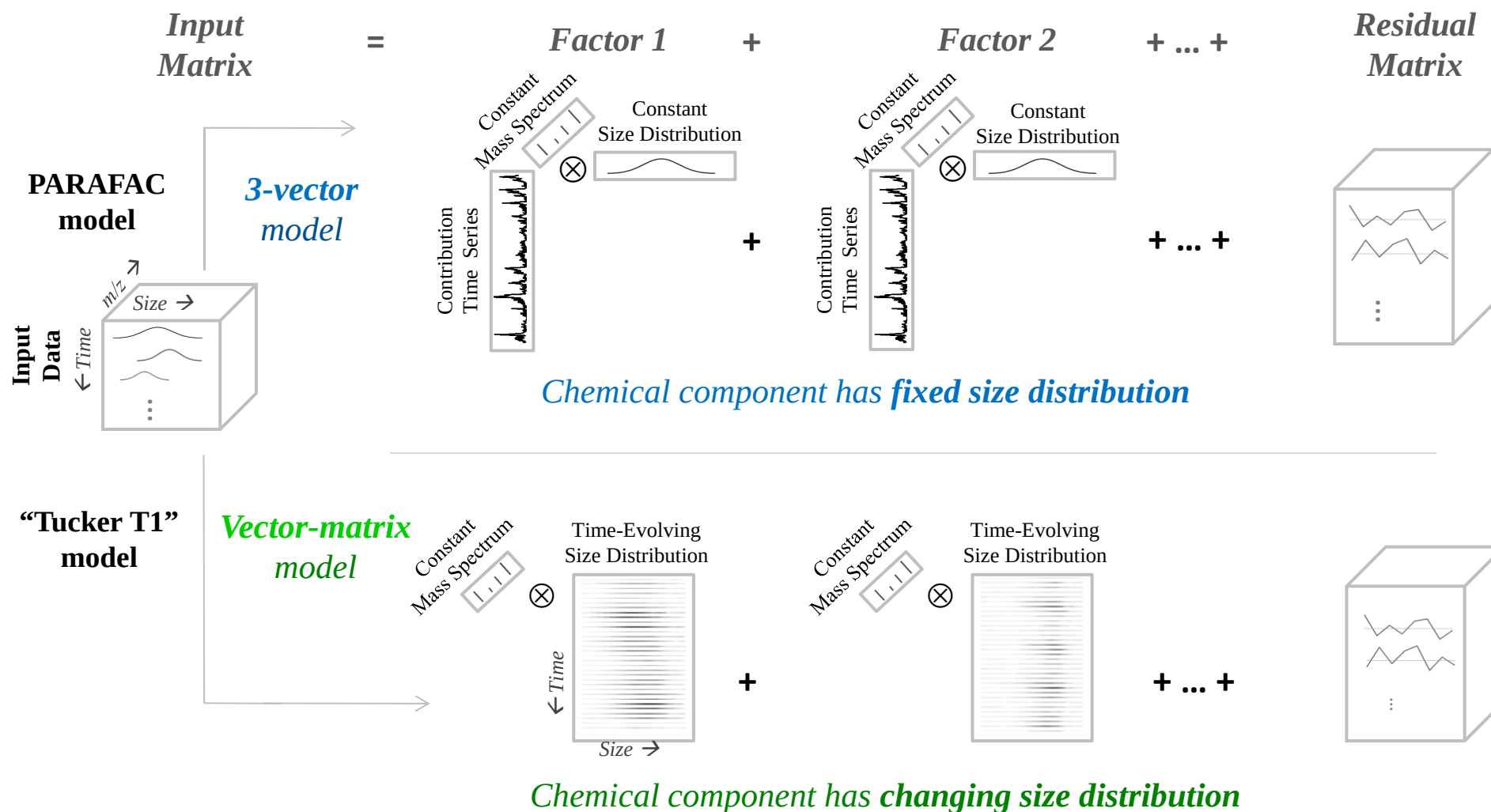


Good fit!

Residuals are randomly distributed

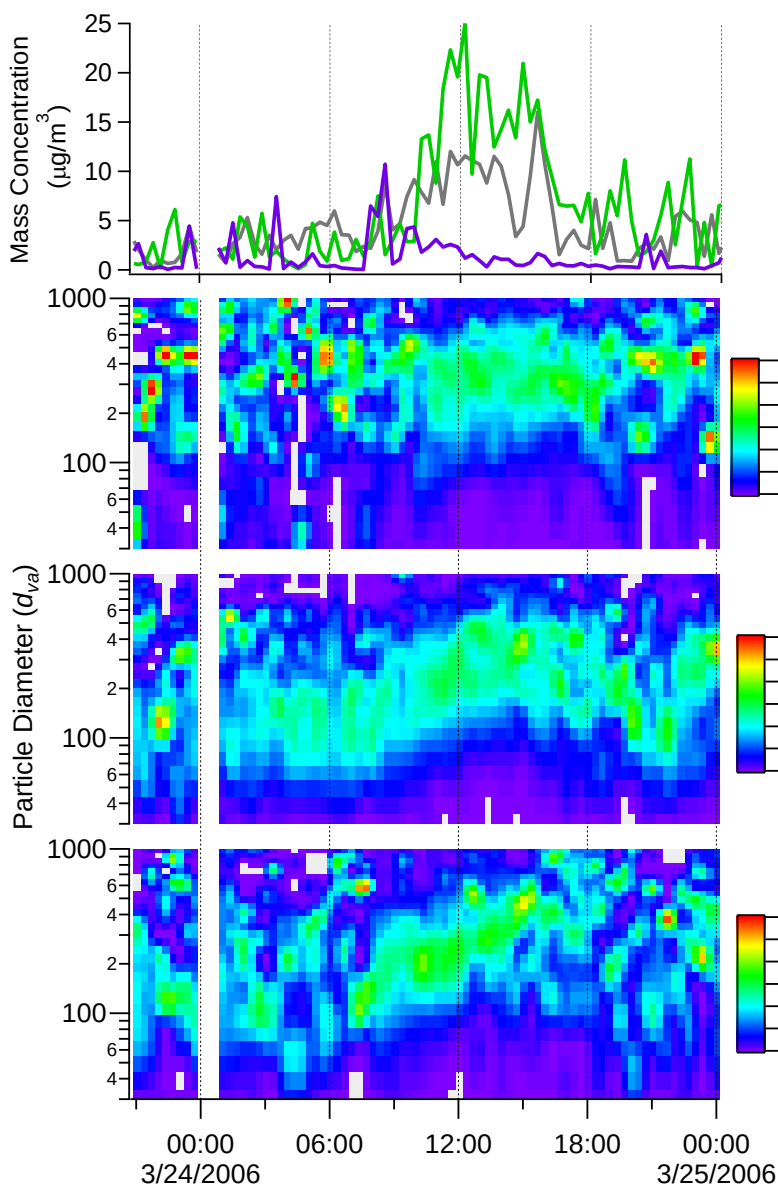


Next: factorization of 3D matrices w/ ME-2

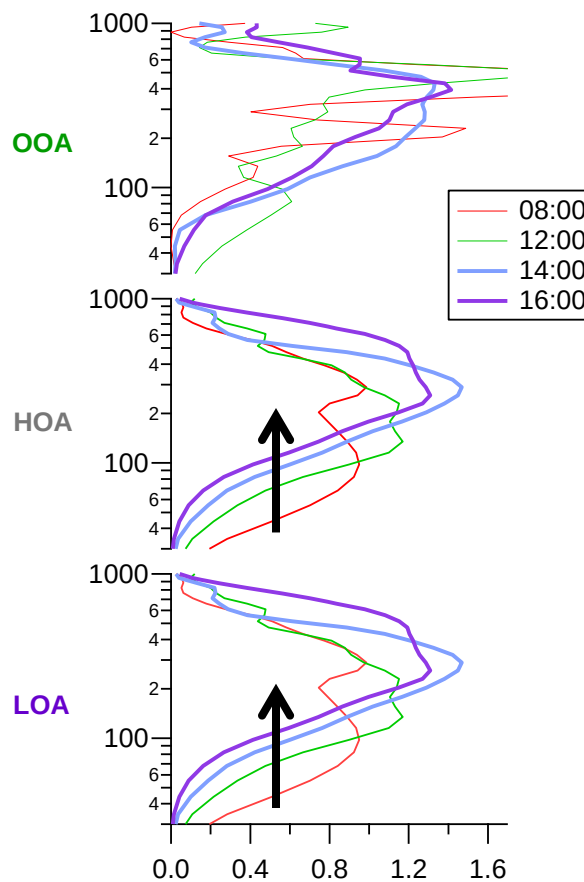


I. Ulbrich, M.R. Canagaratna, N.L. Ng, Q. Zhang, and J.L. Jimenez. Three-dimensional factorization of size-resolved organic aerosol mass spectra from Mexico City. *Atmospheric Measurement Techniques*, 5, 195-224, doi:10.5194/amt-5-195-2012, 2012.

<http://www.atmos-meas-tech.net/5/195/2012/>



Example 3d: HOA and LOA are Found
in Larger Particles
After Processing



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