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Dr. Sonja Grubisic
COST MOLIM STSM coordinator

Subject: STSM Olfa Ferchichi

Dear Dr. Grubisic,

Miss Olfa Ferchichi has just submitted her report summarising the research done during her STSM in Reims. She has obtained excellent results on the structure of FOOF, for which the internuclear distances, after taking vibrational averages, are now in full agreement with experimental data. Note that previous theoretical work has failed to produce satisfactory values for the bond lengths, and FOOF has indeed been considered an extreme example of a problematic molecule by Oberhammer, author of ref. [1] of her report. The second problematic molecule that Olfa has studied is ClOOCl. Though some of the calculations are still running, we expect results of similar accuracy for this molecule. The next step is the computation of the IR and, more important, the UV spectra, which are essential for the detection of these species in the atmosphere. These studies are on the way, we are at present examining the lowest excited electronic states.

I am very satisfied with the work she has done and agree entirely with her report.

With best wishes,

A. Alijah