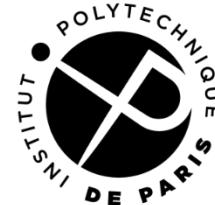


Session Wrap-Up

The BBOBies



INSTITUT
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DE PARIS

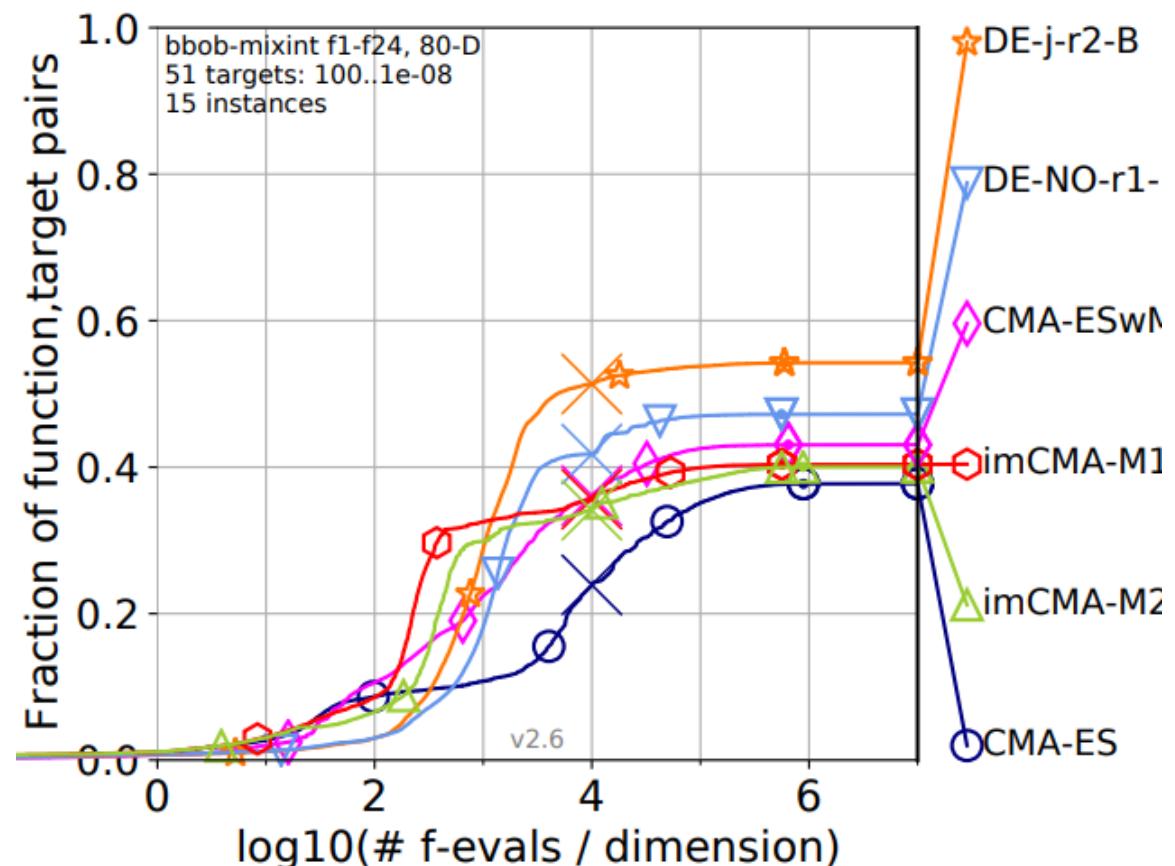
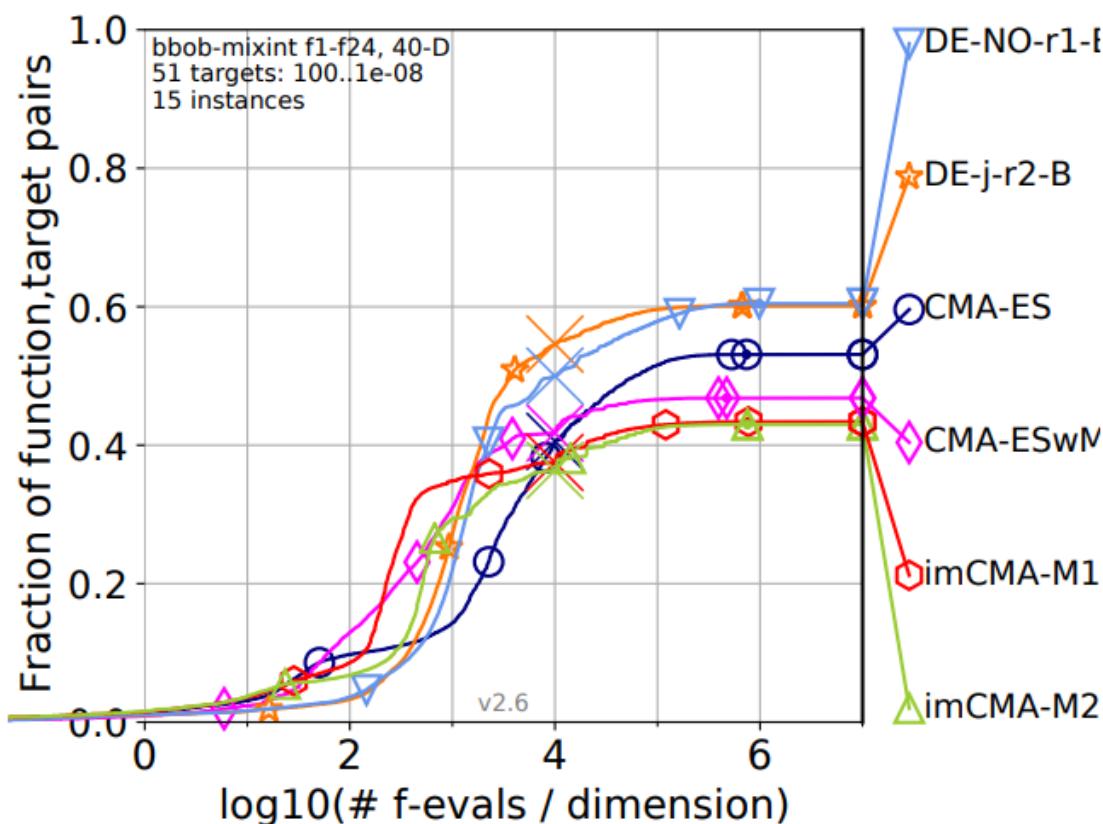
Session I: Noise + Mixed Integer

- Noisified bbob results
 - CMA-ES with/without resampling and with default and larger popsize
 - Powell's BOBYQA, COBYLA, LINCOA, NEWUOA, UOBYQA
 - Nelder-Mead + BFGS
- Mixed-Integer results by Duc-Manh

Mixed-Integer Results

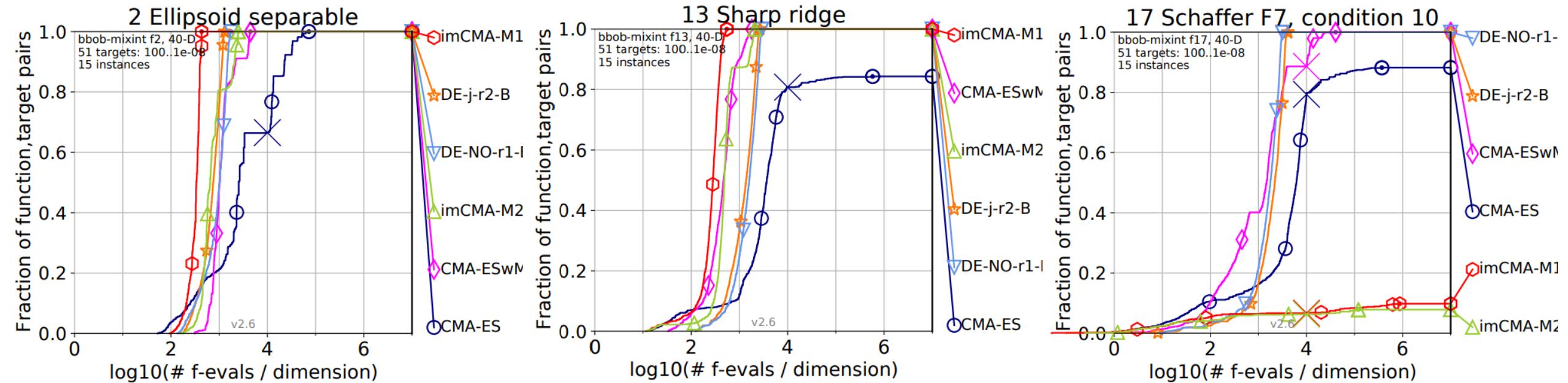
◊ imCMA-M1: $\tau = 0.7, \theta_m = 0, \theta_{std} = 0$

△ imCMA-M2: $\tau = 0.7, \theta_m = 0.9, \theta_{std} = 0.1$

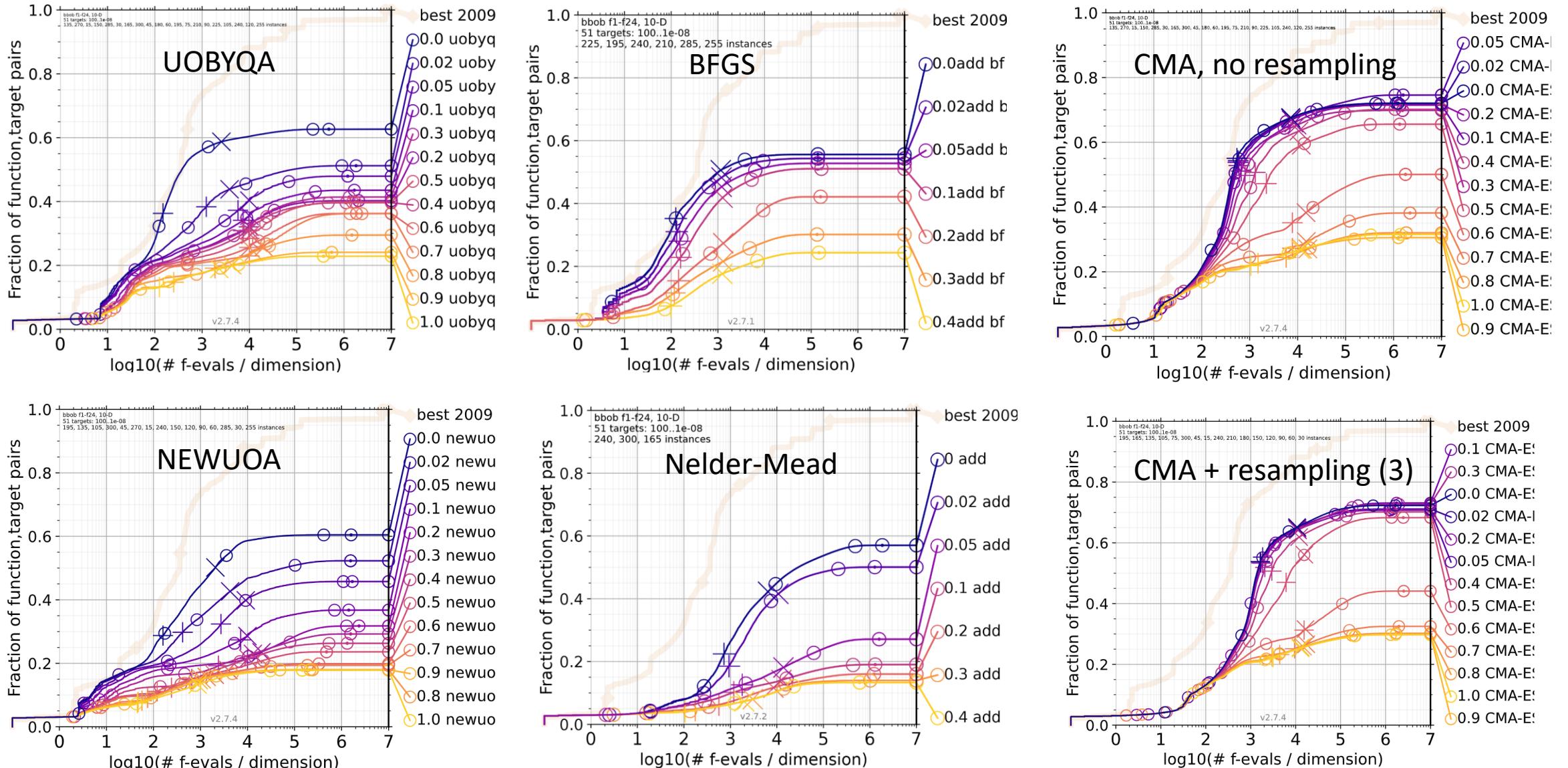


Mixed-Integer Results

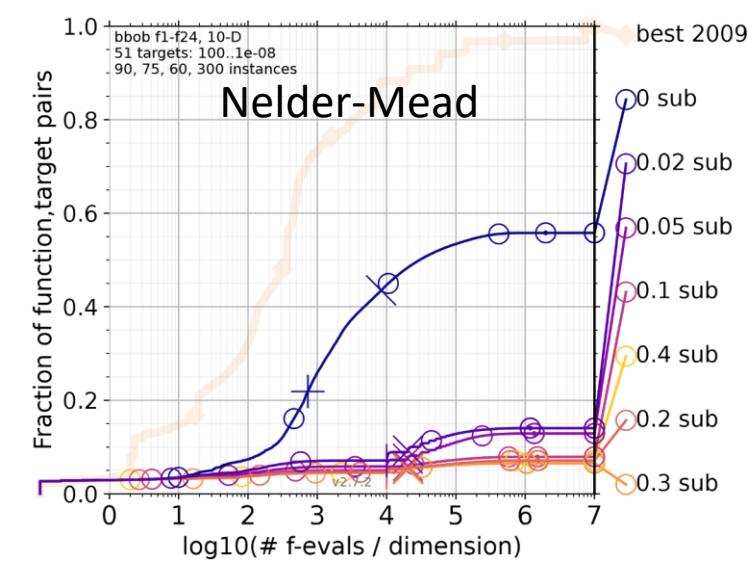
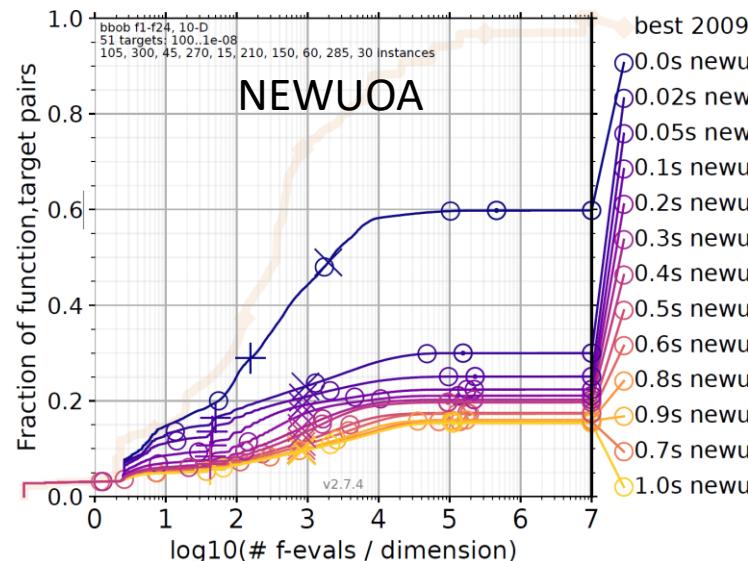
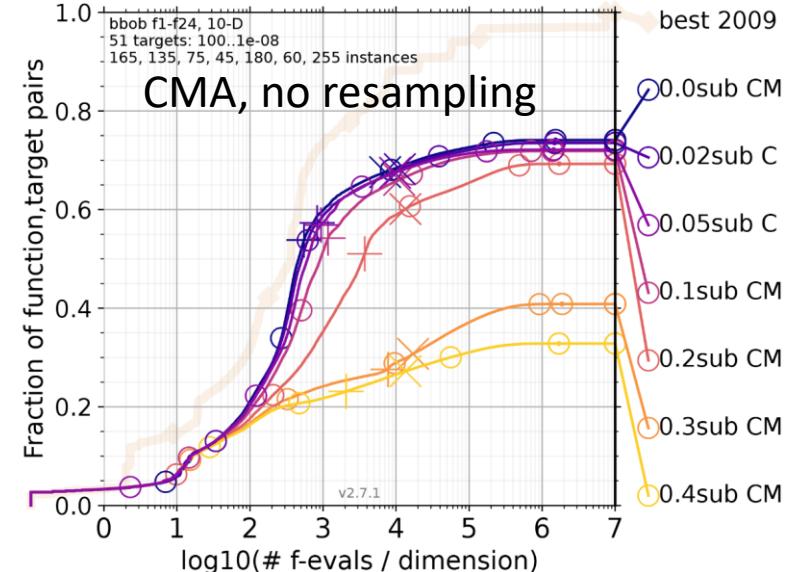
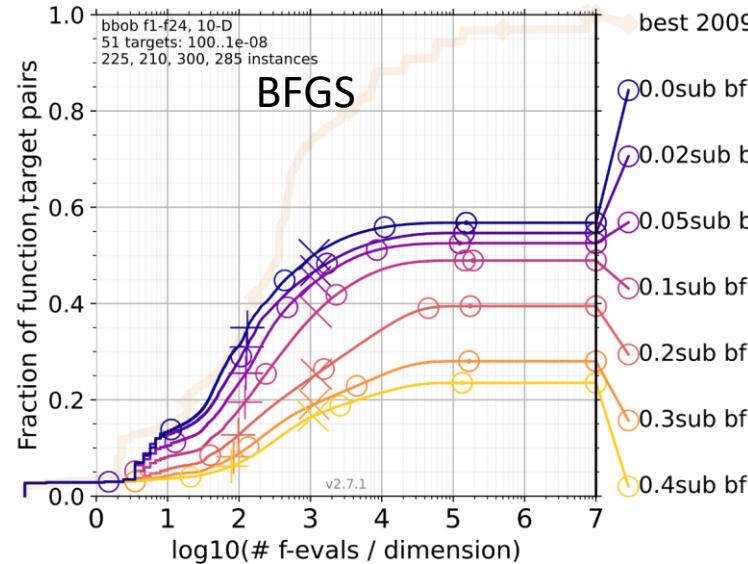
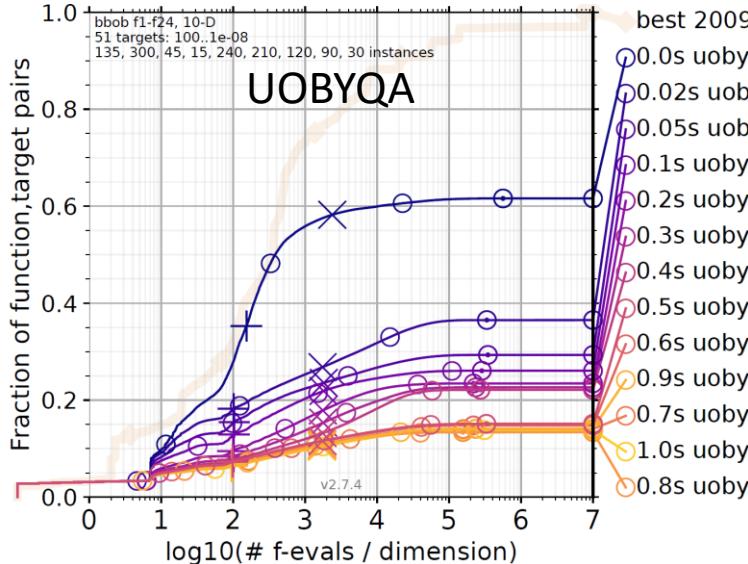
- imCMA-M1: $\tau = 0.7, \theta_m = 0, \theta_{std} = 0$
- imCMA-M2: $\tau = 0.7, \theta_m = 0.9, \theta_{std} = 0.1$



On the Impact of Noise (add. Half-Cauchy, 10-D)



On the Impact of Noise (subst. Half-Cauchy, 10-D)



**Subtractive (=good)
outliers more difficult than
additive (=bad) outliers**