

Interactive comment on “Mathematical foundation of Capon’s method for planetary magnetic field analysis” by Simon Toepfer et al.

Anonymous Referee #2

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The manuscript presents well founded support for mathematical analysis of planetary magnetic field basing on experimental data.

1. Line 33: “N data points x_i , $i = 1, \dots, N$ ” and Line 102 “Q indicates the number of measurements”. Are N and Q the same numbers? 2. Line 94: “fulfills in principle the resolution of Eq. (7) with respect to g.” Did you mean solution of Eq.(7)? 3. As a usual practice, for validation of the model, experimental data are divided into two parts. The first one is used for selection/tuning of model parameters with the help of the various optimization algorithms. The second part provides verification of the model by means comparison of experimental data with the data predicted by the built model. It could be helpful to demonstrate such an approach here.

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