

Implementazione della tecnica IMSA multi-grid (IMGA): stima TAU ed ETOT

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Abstract

Il progetto ha come obiettivo l'implementazione della tecnica per inverse scattering 2D IMSA multi-grid caratterizzata dalla soluzione "stima funzione oggetto TAU ed ETOT". A differenza della tecnica multi-risoluzione presentata in questa tecnica considera ad ogni passo del processo multi-risoluzione due opportuni set di funzioni base per l'incognita (la funzione oggetto TAU) e per ETOT rispettivamente. In particolare, le funzioni base per l'equazione dei dati sono scelte a partire dal contenuto informativo delle misure e al primo passo definiscono una risoluzione spaziale molto bassa. Al contrario, le funzioni base per ETOT sono scelte in modo da rappresentare correttamente il campo (celle con lato pari a $\lambda/10$).

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