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July 2020

1 Introduction

Yes these are the correct steps. You can fit some simple analytic forms to Log ($\Phi(L')$) to Log (L') and to Log ($\sigma(z)$) to log (1+z). The derivatives of these will give psi and ρ as given by our equations.

2 next email

1. In L-Z diagram the Associated Set of source (L_i, z_i) for ranking in L or getting $\dot{\sigma}(z)$ is defined as $z_j < z_i$ and $L_j > L_{i,\mathrm{lim}}$ and for ranking in z or getting $\Phi(L)$ is defined as $L_j > L_i$ and $z_j < z_{i,\mathrm{max}}$.

in L-Lmin diagram you essentially replaced z by Lmin. So the Associated Set of source $(L_i, Lmin_i)$ for ranking in L or getting $\Psi(L_{min})$ is defined as $L_{min,j} < L_{min,i}$ and $L_j < L_{i,lim}$.

Once you get $\Psi(L_{min})$ you ca calculate $\dot{\sigma}(z)$=$\Psi(L_{min})(dL_{min}(z)/dz)$.

And for ranking in L_{min} or getting $\phi(L)$ is defined as $L_j > L_i$ and $L_{min,j} < L_{min,i}$.