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## Matrix Model for Structure Constants of "Huge" Protected Operators in N=4 SYM Theory

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Huge operators in N = 4 SYM theory correspond to sources so heavy that they fully backreact on the spacetime geometry. Here we study the protected correlation function of three such huge operators when they are given by 1/2 BPS operators, dual to IIB Strings in AdS5 × S 5. We unveil simple matrix model representations for these correlators which we can sometimes solve analytically. For general huge operators, we transform this matrix model into a 1 + 1 dimensional integrable hydrodynamics problem. A discrete counterpart of this system --the rational Calogero-Moser Model - helps to numerically solve the problem for general huge operators.

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