

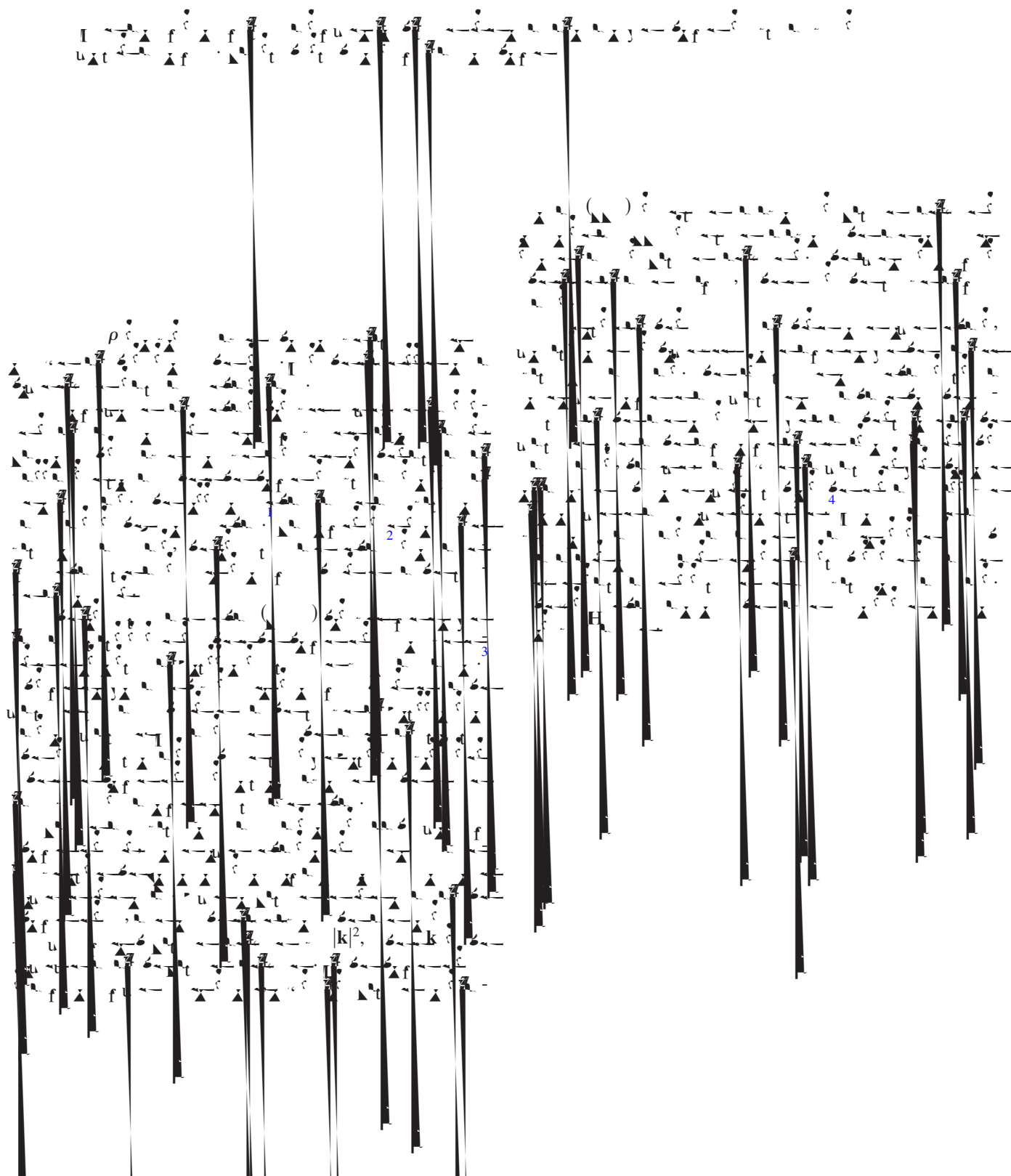
Efficient solution of Poisson's equation with free boundary conditions

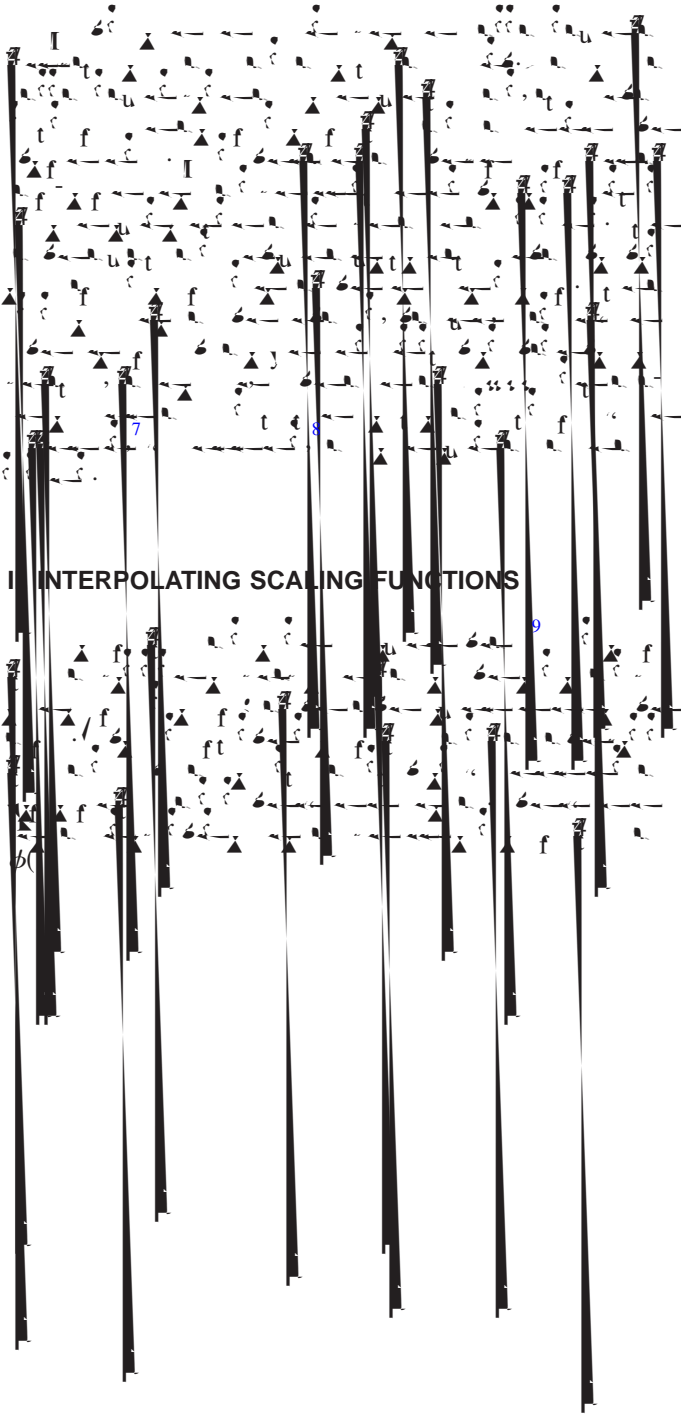
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Gregory Beylkin

([arXiv:1506.02413](#), 2015; [arXiv:1310.1301](#), 2013; [arXiv:1704.01717](#), 2017; [arXiv:1704.01717](#), 2017)





INTERPOLATING SCALING FUNCTIONS

$$= \left(\Gamma_{j_1, j_2, j_3} \right), \quad \Gamma_{j_1, j_2, j_3} = (j_1, j_2, j_3) \quad - \quad j_1, j_2, j_3$$

∴

A musical score system consisting of four staves. The notation includes various note values, rests, and dynamic markings such as 'f' and 'u'. The notes are primarily eighth and sixteenth notes, with some quarter notes. The system is connected by a brace on the left side.

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APPENDIX: PROOF OF EQ. (6)

(6)

$$\rho(\mathbf{r}) = \sum_{s_1+s_2+s_3} \rho_{s_1+s_2+s_3} \phi_{s_1}(\mathbf{r}_1) \phi_{s_2}(\mathbf{r}_2) \phi_{s_3}(\mathbf{r}_3) \quad (1)$$

$$\sum_{s_1+s_2+s_3} \rho_{s_1+s_2+s_3} = \int \delta(\mathbf{r}) \rho(\mathbf{r}) \quad (2)$$

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$$\int \phi_{s_i}(\mathbf{r}_i) = \delta_{s_i, 0, \dots, 1} \quad (3)$$

$$\int \phi_{s_1}(\mathbf{r}_1) \phi_{s_2}(\mathbf{r}_2) \phi_{s_3}(\mathbf{r}_3) = \int \phi(\mathbf{r}) \dots = \dots \quad (1) \quad (2)$$