

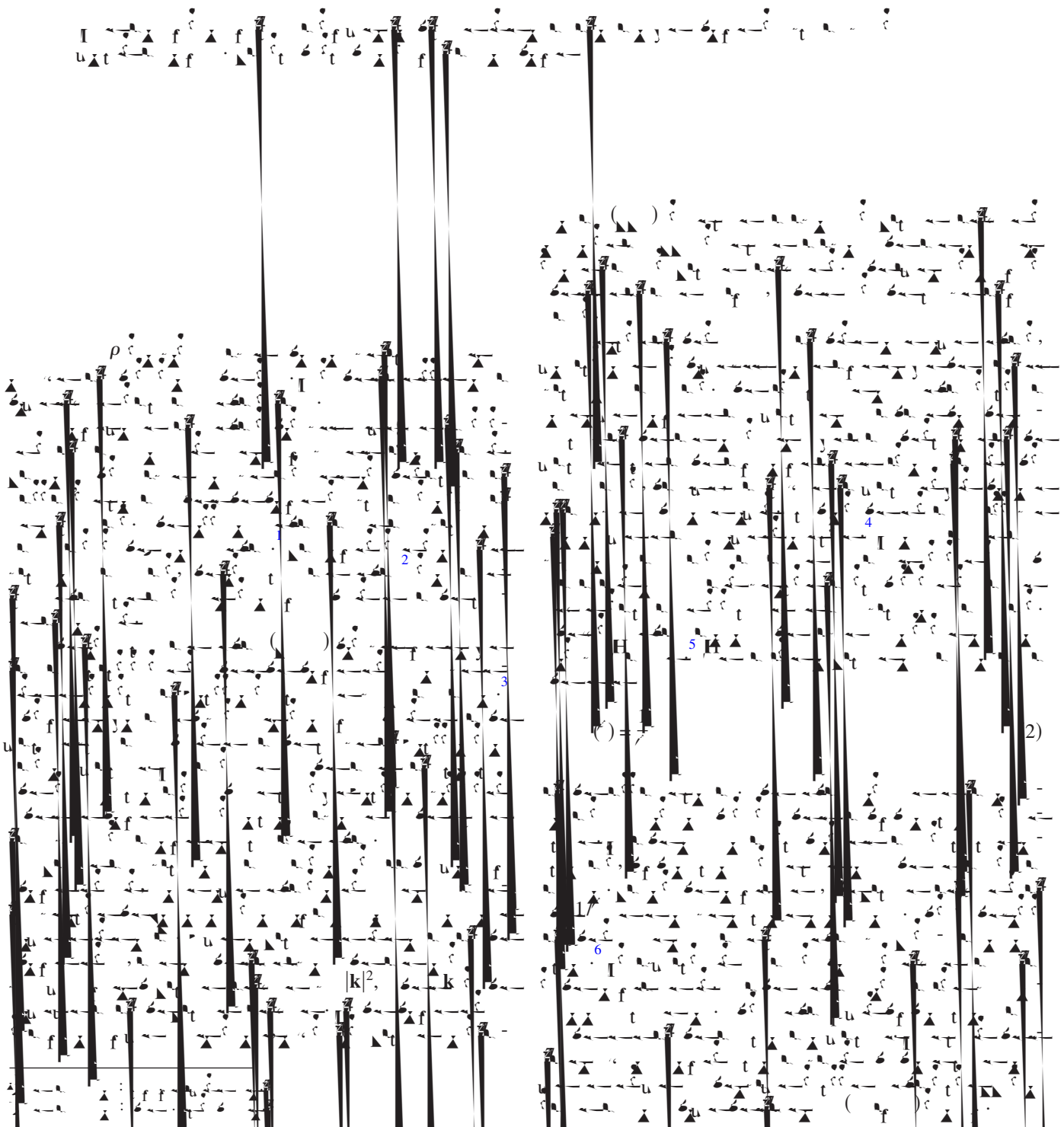
Efficient solution of Poisson's equation with free boundary conditions

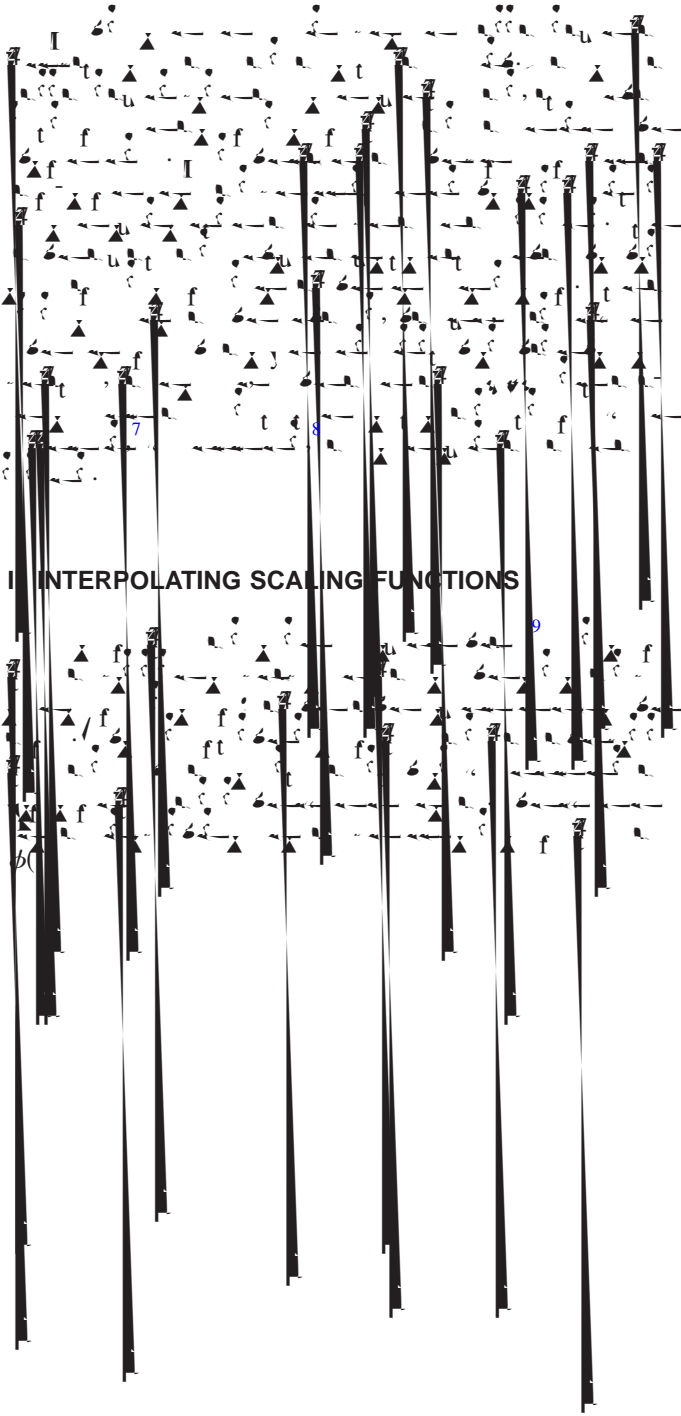
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INTERPOLATING SCALING FUNCTIONS

$$= \left(\mathbf{r}_{i_1, i_2, i_3} \right), \quad \mathbf{r}_{i_1, i_2, i_3} = (i_1, i_2, i_3) \quad i_1, i_2, i_3$$

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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 vertically aligned with the upper system on the right.

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 vertically aligned with the lower system on the left. Page numbers '16' and '17' are visible in blue text. A '1/8' time signature is present at the beginning of the system. A circled '3' is also visible in the upper part of the system.

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APPENDIX: PROOF OF EQ. (6)

(6)

$$\rho(\mathbf{r}) = \sum_{s_1+s_2+s_3} \rho_{s_1+s_2+s_3} \phi(\mathbf{r}_{s_1}) \phi(\mathbf{r}_{s_2}) \phi(\mathbf{r}_{s_3}) \quad (1)$$

$$\sum_{s_1+s_2+s_3} \rho_{s_1+s_2+s_3} \mathbf{r}^{s_1+s_2+s_3} \rho(\mathbf{r}) \quad 0 \leq s_1, s_2, s_3 < \dots \quad (2)$$

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$$\phi(\mathbf{r}_{s_i}) = \delta_{s_i, 0, \dots, 1} \quad (3)$$

$$\int \phi(\mathbf{r}_{s_i}) = \int \phi(\mathbf{r}_{s_i}) \phi(\mathbf{r}_{s_j}) = \int \phi(\mathbf{r}_{s_i}) \sum_{s_j} \phi(\mathbf{r}_{s_j}) = \dots$$

(1) (2)