

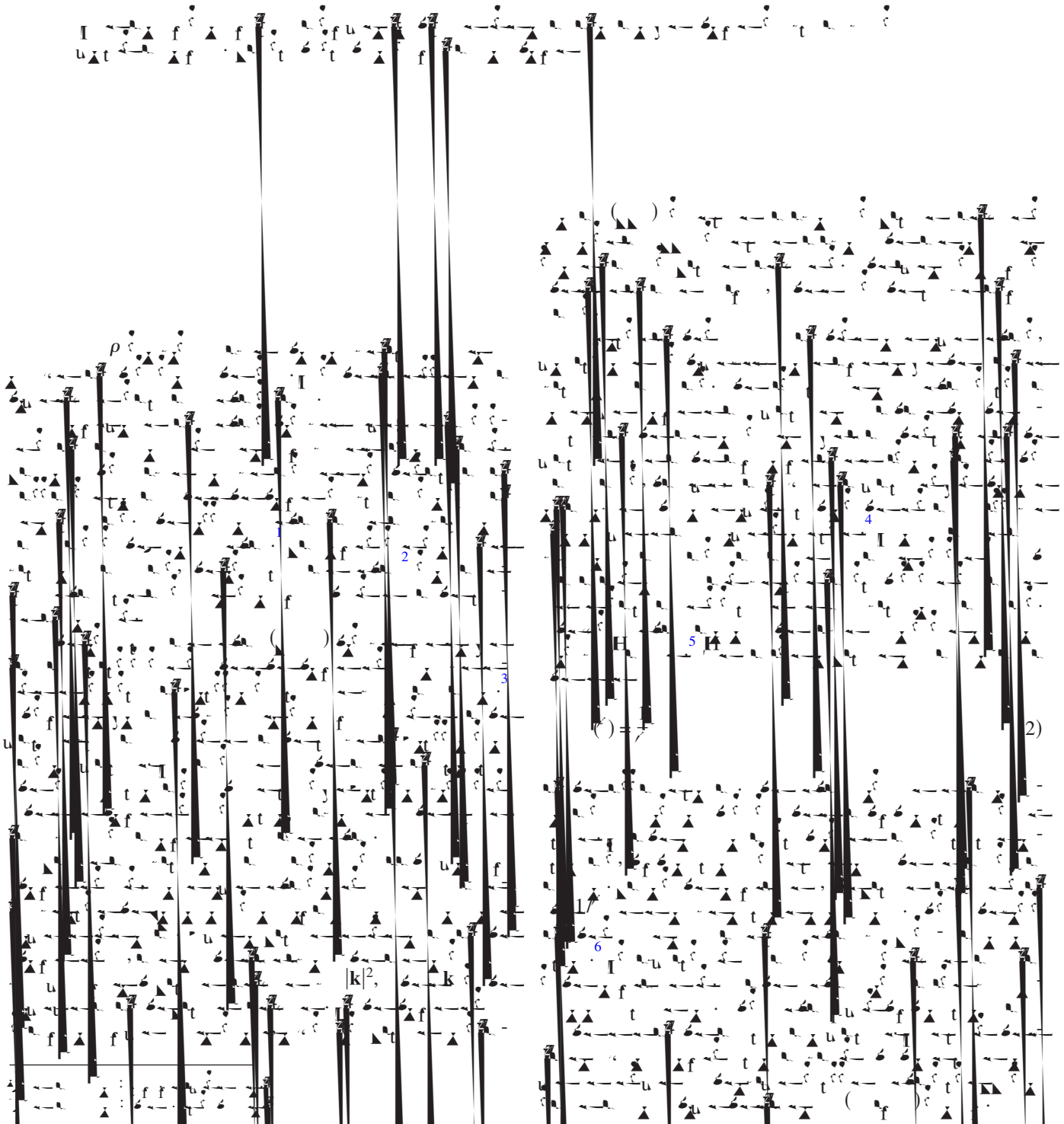
Efficient solution of Poisson's equation with free boundary conditions

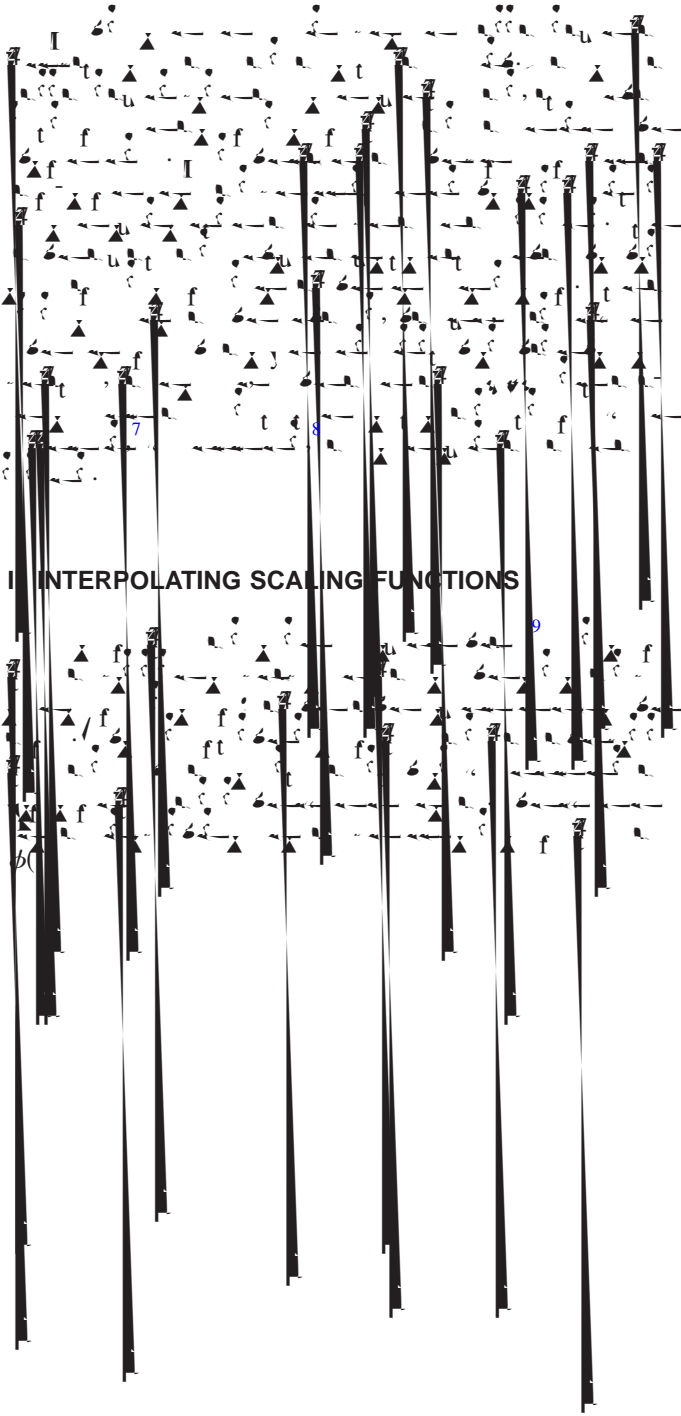
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INTERPOLATING SCALING FUNCTIONS

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

∴

A musical score system consisting of five staves. The notation includes various rhythmic values, stems, and beams. The bottom of the system features five long, vertical stems extending downwards from the staves.

A musical score system consisting of five staves. The notation includes various rhythmic values, stems, and beams. The bottom of the system features five long, vertical stems extending downwards from the staves. The system includes several annotations: a blue '3' above the top staff, a '1/8' time signature on the second staff, a blue '17' with a parenthesis below the first staff, a blue '16' on the right side, and a blue 'H' above the fourth staff.

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APPENDIX: PROOF OF EQ. (6)

(6)

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

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

19

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

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

(1) (2)