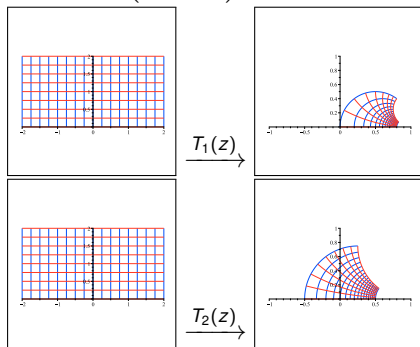


A PATH TO PROCESS GENERAL MATRIX FIELDS

Moebius transformations (hyperbolic geometry):

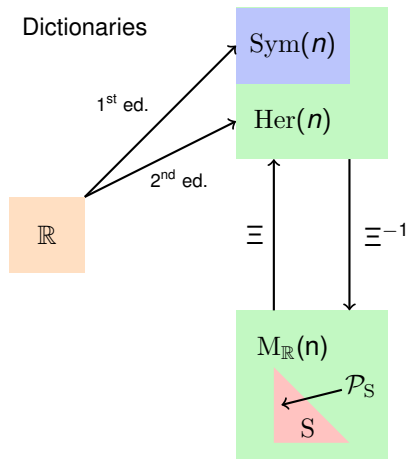
$$T(z) = \frac{az + b}{cz + d}, \quad ad - bc \neq 0$$

$$\longleftrightarrow \mathbf{T} = \begin{pmatrix} a & b \\ c & d \end{pmatrix} \in \mathrm{GL}_2(\mathbb{R}) \subset \mathrm{M}_{\mathbb{R}}(n)$$



$$\frac{1}{2}\mathbf{T}_1 + \frac{1}{2}\mathbf{T}_2 = ?, \quad \mathrm{psup}(\mathbf{T}_1, \mathbf{T}_2) = ?, \quad \mathrm{pinf}(\mathbf{T}_1, \mathbf{T}_2) = ?$$

Scientific contribution:



Open research question:

Interesting real-world application?