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hyperbolic geometry
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hyperbolic geometry \longrightarrow Teichmüller space

S

$$\rho : \pi_1 S \rightarrow \mathrm{PSL}(2, \mathbb{R})$$

Kleinian groups

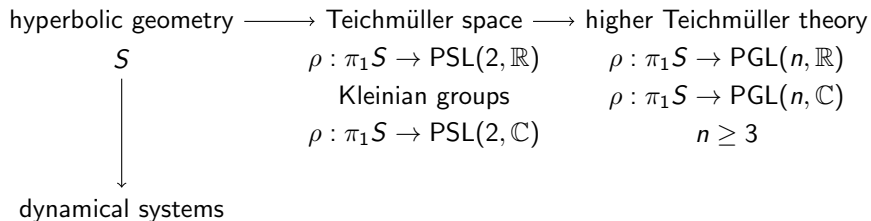
$$\rho : \pi_1 S \rightarrow \mathrm{PSL}(2, \mathbb{C})$$

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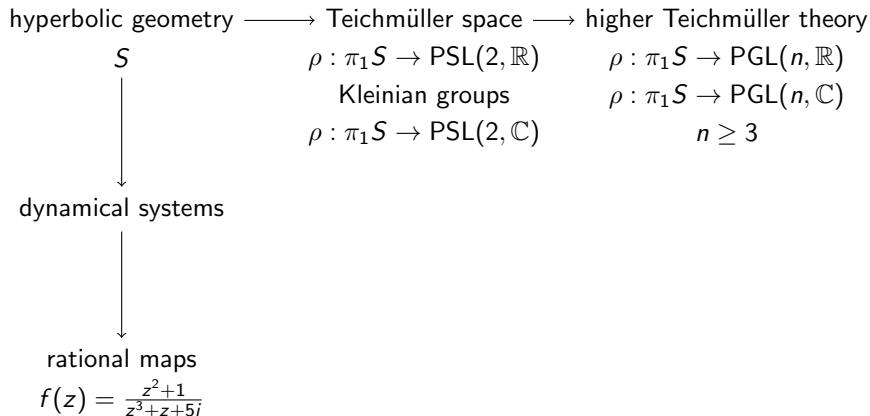
hyperbolic geometry \longrightarrow Teichmüller space \longrightarrow higher Teichmüller theory

S	$\rho : \pi_1 S \rightarrow \mathrm{PSL}(2, \mathbb{R})$	$\rho : \pi_1 S \rightarrow \mathrm{PGL}(n, \mathbb{R})$
	Kleinian groups	$\rho : \pi_1 S \rightarrow \mathrm{PGL}(n, \mathbb{C})$
	$\rho : \pi_1 S \rightarrow \mathrm{PSL}(2, \mathbb{C})$	$n \geq 3$

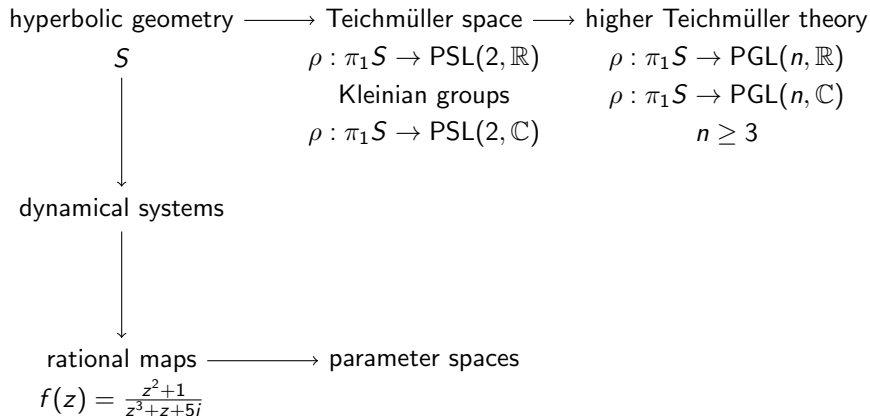
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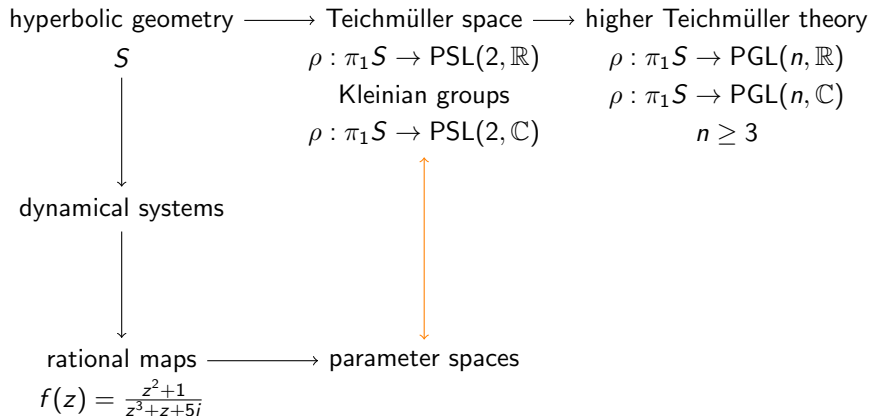
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