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CHARACTER VARIETY OF REPRESENTATIONS OF A FINITELY GENERATED GROUP IN SL_2

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This is a partial exposition of [S4, S5, S6], which study the space of representations of a (finitely generated) group Γ in SL_2 and GL_2 in an attempt of its application in geometry: Teichmüller spaces, knot theory, hyperbolic manifolds, moduli spaces, $\cdots$, etc. (see for instance, [A], [Be], [Br], [C-C-G-L-S], [C-S], [F-K], [G], [H], [H-L-M], [H-K], [J-W], [K], [Kj], [Ko], [Kr], [Ma], [Mu], [N-Z], [O], [S], [S-S], [T], [W], [We], [Wo], [Y], $\cdots$, etc). For simplicity, we omit the case for GL_2 in the present exposition. Let us explain the main result of the present paper.

Let Γ be a group. The purpose of the present paper is to introduce the character variety $\mathrm{Ch}(\Gamma, \mathrm{SL}_2)$ in order to parameterize conjugacy classes of representations of Γ in SL_2 in a functorial way. At first, the character variety is introduced as a scheme over $\mathbb{Z}$, independent of the coefficient ring of representations in question. Then, the scaler field is specialized to $\mathbb{R}$ to obtain results on representations in $\mathrm{SL}_2(\mathbb{R})$ and in $\mathrm{SU}(2)$ with respect to the classical topology. Let us explain this briefly.

Let $\mathrm{Hom}(\Gamma, \mathrm{SL}_n)$ be the functor $R \in \{\text{commutative rings with 1}\} \longmapsto \mathrm{Hom}(\Gamma, \mathrm{SL}_n(R)) \in \{\text{sets}\}$. The functor is representable (see §1.3 Lemma) and so, for an abuse of notation, we denote by the same $\mathrm{Hom}(\Gamma, \mathrm{SL}_n)$ the scheme over $\mathbb{Z}$ representing the functor. The group scheme PGL_n acts on $\mathrm{Hom}(\Gamma, \mathrm{SL}_n)$. Whether the universal categorical quotient $\mathrm{Hom}(\Gamma, \mathrm{SL}_n)/\!/\,\mathrm{PGL}_n$ (Mumford [Mu1]) defined over $\mathbb{Z}$ exists or not seems to be a hard and unsolved question. Instead of asking directly for the quotient space, we introduce *i)* the *character variety* $\mathrm{Ch}(\Gamma, \mathrm{SL}_2)$ together with its *discriminant subvariety* D_Γ as schemes over $\mathbb{Z}$ abstractly, and *ii)* the PGL_2*-invariant morphism* $\pi_\Gamma : \mathrm{Hom}(\Gamma, \mathrm{SL}_2) \longrightarrow \mathrm{Ch}(\Gamma, \mathrm{SL}_2)$, for which we prove that *i) the restriction of* π_Γ *on the complement of* $\pi_\Gamma^{-1}(D_\Gamma)$ *is a principal* PGL_2*-bundle with respect to the etal topology, and ii) the inverse image* $\pi_\Gamma^{-1}(D_\Gamma)$ *is a subfunctor of* $\mathrm{Hom}(\Gamma, \mathrm{SL}_2)$ *consisting of abelian or reducible representations.* This implies that the complement $\mathrm{Hom}^*(\Gamma, \mathrm{SL}_2) := \mathrm{Hom}(\Gamma, \mathrm{SL}_2) \backslash \pi^{-1}(D_\Gamma)$ consists of absolutely irreducible representations, and that $\mathrm{Hom}^*(\Gamma, \mathrm{SL}_2)$ has the universal categorical quotient space $\mathrm{Ch}^*(\Gamma, \mathrm{SL}_2) := \mathrm{Ch}(\Gamma, \mathrm{SL}_2) \backslash D_\Gamma$ defined over $\mathbb{Z}$. Then the result is specialized

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