

CHARACTER VARIETY OF REPRESENTATIONS OF A FINITELY GENERATED GROUP IN SL_2

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(Received January 10, 1996)

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, \dots , 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], \dots , 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 $\text{Ch}(\Gamma, SL_2)$ 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 scalar field is specialized to \mathbb{R} to obtain results on representations in $SL_2(\mathbb{R})$ and in $SU(2)$ with respect to the classical topology. Let us explain this briefly.

Let $\text{Hom}(\Gamma, SL_n)$ be the functor $R \in \{\text{commutative rings with } 1\} \mapsto \text{Hom}(\Gamma, SL_n(R)) \in \{\text{sets}\}$. The functor is representable (see §1.3 Lemma) and so, for an abuse of notation, we denote by the same $\text{Hom}(\Gamma, SL_n)$ the scheme over \mathbb{Z} representing the functor. The group scheme PGL_n acts on $\text{Hom}(\Gamma, SL_n)$. Whether the universal categorical quotient $\text{Hom}(\Gamma, SL_n) // \text{PGL}_n$ (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* $\text{Ch}(\Gamma, SL_2)$ together with its *discriminant subvariety* D_Γ as schemes over \mathbb{Z} abstractly, and *ii)* the PGL_2 -invariant morphism $\pi_\Gamma: \text{Hom}(\Gamma, SL_2) \rightarrow \text{Ch}(\Gamma, SL_2)$, 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 *étal* topology, and *ii)* the inverse image $\pi_\Gamma^{-1}(D_\Gamma)$ is a subfunctor of $\text{Hom}(\Gamma, SL_2)$ consisting of abelian or reducible representations. This implies that the complement $\text{Hom}^*(\Gamma, SL_2) := \text{Hom}(\Gamma, SL_2) \setminus \pi_\Gamma^{-1}(D_\Gamma)$ consists of absolutely irreducible representations, and that $\text{Hom}^*(\Gamma, SL_2)$ has the universal categorical quotient space $\text{Ch}^*(\Gamma, SL_2) := \text{Ch}(\Gamma, SL_2) \setminus D_\Gamma$ defined over \mathbb{Z} . Then the result is specialized

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