

CHARACTER VARIETY OF REPRESENTATIONS OF A FINITELY GENERATED GROUP IN SL_2

KYOJI SAITO

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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, $\dots$, 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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Table of Contents SI2 Representations Of Finitely Presented Groups

1. Understanding the eBook SI2 Representations Of Finitely Presented Groups
 - The Rise of Digital Reading SI2 Representations Of Finitely Presented Groups
 - Advantages of eBooks Over Traditional Books
2. Identifying SI2 Representations Of Finitely Presented Groups
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an SI2 Representations Of Finitely Presented Groups
 - User-Friendly Interface
4. Exploring eBook Recommendations from SI2 Representations Of Finitely Presented Groups
 - Personalized Recommendations
 - SI2 Representations Of Finitely Presented Groups User Reviews and Ratings
 - SI2 Representations Of Finitely Presented Groups and Bestseller Lists
5. Accessing SI2 Representations Of Finitely Presented Groups Free and Paid eBooks
 - SI2 Representations Of Finitely Presented Groups Public Domain eBooks
 - SI2 Representations Of Finitely Presented Groups eBook Subscription Services
 - SI2 Representations Of Finitely Presented Groups Budget-Friendly Options
6. Navigating SI2 Representations Of Finitely Presented Groups eBook Formats
 - ePub, PDF, MOBI, and More
 - SI2 Representations Of Finitely Presented Groups Compatibility with Devices
 - SI2 Representations Of Finitely Presented Groups Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of SI2 Representations Of Finitely Presented Groups
 - Highlighting and Note-Taking SI2 Representations Of Finitely Presented Groups
 - Interactive Elements SI2 Representations Of Finitely Presented Groups
8. Staying Engaged with SI2 Representations Of Finitely Presented Groups

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers SL2 Representations Of Finitely Presented Groups
- 9. Balancing eBooks and Physical Books SL2 Representations Of Finitely Presented Groups
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection SL2 Representations Of Finitely Presented Groups
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine SL2 Representations Of Finitely Presented Groups
 - Setting Reading Goals SL2 Representations Of Finitely Presented Groups
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of SL2 Representations Of Finitely Presented Groups
 - Fact-Checking eBook Content of SL2 Representations Of Finitely Presented Groups
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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