***Семинар Лаборатории Алгебраической геометрии и ее приложений***

**Цикл лекций**: понедельник 19 июня 2017 г. среда 21 июня 2017 г., пятница 23 июня 2017 г.

**Начало в 17:00 ул. Усачева, д.6, аудитория 306**

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| Цикл лекций прочтет Махан Митра (Mahan Mj.) | C:\Users\user\Desktop\ВЕРА\Лаборатория Богомолова\Конференции\Семинары\Фото\Mahan_Mj.png |

**19.06.2017: *Cannon-Thurston maps and Kleinian groups (1)***

 **Let M be a closed hyperbolic 3-manifold fibering over theircle with fiber a closed surface S. The inclusion of Sinto M lifts to a map between universal covers \tilde{S}
and \tilde{M}. In the early 80's Cannon and Thurston showed that this inclusion extends to a continuous map between their compactifications: namely the 2-disk and the 3-ball. This gives rise to a space-filling (Peano) curve from the circle onto the 2-sphere, equivariant under the action of the fundamental group of S. This led Thurston to the following questions.**

**1) Is this a general phenomenon for finitely generated discrete subgroups of the isometry group of hyperbolic 3-space?**

**2) How does this map behave with respect to sequences of representations?**

**In the first lecture I shall survey an affirmative answer to Question 1. In the second, I shall give a review of work (joint in parts with C. Series and K. Ohshika) leading to a resolution of Q.**

 **21.06.2017: *Cannon-Thurston maps and Kleinian groups (2)***

 **23.06.2017: *Cannon-Thurston maps in Geometric Group Theory***

 **Let M be a closed hyperbolic 3-manifold fibering over the circle with fiber a closed surface S. The inclusion of S into M lifts to a map between universal covers \tilde{S} and \tilde{M}. In the early 80's Cannon and Thurston showed that this inclusion extends to a continuous map between their compactifications: namely the 2-disk and the 3-ball. This can be extended to a considerably broader framework in the context of (Gromov) hyperbolic groups. I shall survey some of the developments in this broader context.**

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***Приглашаются все желающие!***