不漏 arXiv：2026 年 1 月 28 日[1][2][3]

今日 AG 数量：9

今日 RT & QA 数量：9+7

0 精选

2601.19691v1, **Iwahori-Coulomb branches, stable envelopes, and quantum cohomology of cotangent bundles of flag varieties**, Ki Fung Chan, Kwokwai Chan, Chi Hong Chow 等

库 ÷ 可以看看

2601.19050v1, **Curves of genus two with maps of every degree to a fixed elliptic curve**, Everett W. Howe

像是小郑 school 喜欢的 (?)

2601.19779v1, **Tropical symmetries of cluster algebras**, James Drummond, Ömer Gürdoğan, Jian-Rong Li

看起来还挺有意思的, 又有 tropical 又有 cluster 的.

2601.19670v1, **Representations of quantum symmetric pairs at roots of unity**, Jinfeng Song, Weinan Zhang

可能牢王感兴趣?

2601.19471v1, **On the distribution of the periods of convex representations II**, Abdelhamid Amroun

哇动力系统, 可能还挺有意思的.

1 AG

2601.19805v1, **Containments of Tensor Network Varieties**, Sofía Garzón Mora, Christian Haase

这是咋和 AG 搭上边儿的

2601.19757v1, **Integral torsion points on abelian varieties over function fields**, Robin de Jong, Nicole Looper, Farbod Shokrieh

该研究成果在函数域上证明了阿贝尔簇关于非特殊除子的挠点非 Zariski 密度猜想的一个类比结论。通过建立 Tate-Voloch 型定理，得到了挠点 Galois 轨道的对数等分布结果。

2601.19698v1, **Some examples of DG-Lie formality transfer**, Marco Manetti, Gabriele Rossetti

We give a convenient reformulation, a slight generalization and some applications of the formality transfer theorem for DG-Lie algebras.

[1]感谢 arXiv 提供的服务.

[2]今天的整理者是

[3]由于 arXiv api 的局限性, 实际上获取的是 arXiv api 给出的最近三天 submit 的所有论文, 和 recent 页面可能有一定的差异. 三个 category 中没有进行去重, 顺序也可能存在一定问题, 麻烦整理者自行增删.

2601.19691v1, **Iwahori-Coulomb branches, stable envelopes, and quantum cohomology of cotangent bundles of flag varieties**, Ki Fung Chan, Kwokwai Chan, Chi Hong Chow 等

Iwahori 版本的 Coulomb branch, 以及相应的在 quantum cohomology 上的作用.

还有 stable evelop 的事儿.

还有 homology 的 Coulomb branch 和 trigonometric DAHA 的同构 (我惊奇这个结果之前竟然没人证).

2601.19655v1, **Almost Vector Bundles over Perfectoid Spaces**, Yuntong Cui, Guo Li, Shuhan Jiang 等

不懂, p 进几何, perfectoid, almost mathematics 啥的

2601.19608v1, **Stability properties of adapted tangent sheaves on Kähler–Einstein log Fano pairs**, Louis Dailly

不懂, polystability 啥的

2601.19558v1, **Apolarity for border cactus decompositions**, Weronika Buczyńska, Jarosław Buczyński

看不懂, 感觉像是比较具体的代数几何. 炒个 keyword: cactus varieties, border cactus rank, finiteschemes, apolarity, multigraded Hilbert scheme, Cox ring.

2601.19164v1, **Derived graded modules**, Ryo Ishizuka, Shou Yoshikawa

他们引入了 ∞-category of (complete) derived G-graded modules over a G-graded ring G 对某无挠群 G, 并证明了这个概念等价于一个 comonad 的 comodule.

我想这个可能是推广了我们熟知的 $\mathbb{Z}$-graded vector space, 并且给一个 $\mathbb{Z}$-graded vector space 等价于给一个 $\mathbb{G}_{\mathrm{m}}$-模, 也就是 $k[\mathbb{G}_{\mathrm{m}}]$-comodule.

2601.19050v1, **Curves of genus two with maps of every degree to a fixed elliptic curve**, Everett W. Howe

We show that up to isomorphism there are exactly twenty pairs (C, E), where C is a genus-2 curve over C, where E is an elliptic curve over Cand where for every integer $n > 1$ there is a map of degree n from C to E.

2 RT & QA

2601.19779v1, **Tropical symmetries of cluster algebras**, James Drummond, Ömer Gürdoğan, Jian-Rong Li

看起来还挺有意思的, 又有 tropical 又有 cluster 的.

2601.19754v1, **Triangulated monoidal categorifications of finite type cluster algebras**, Élie Casbi

We propose a framework of monoidal categorification of finite type cluster algebras involving triangulated monoidal categories.

2601.19670v1, **Representations of quantum symmetric pairs at roots of unity**, Jinfeng Song, Weinan Zhang quantum symmetric pair, i-quantum group 那一套; 他们希望把 quantum group 的 DeConcini-Kac integral form at roots of unity 的这一套在 i-quantum group 里做.

2601.19537v1, **Kostant's problem for permutations of shape $(n-2,1,1)$ and $(n-3,2,1)$**, Samuel Creedon, Volodymyr Mazorchuk 感觉比较组合, 没仔细看.

2601.19471v1, **On the distribution of the periods of convex representations II**, Abdelhamid Amroun

哇动力系统, 可能还挺有意思的.

2601.19415v1, **Generating sets of standard modules for $D_4^{(1)}$**, Ivana Baranović, Miroslav Jerkovic, Goran Trupčević

Let $\tilde{\mathfrak{g}}$ be an affine Lie algebra of type $D_4^{(1)}$. 他们考虑了 standard module $L(\lambda)$ 的 Feigin-Stoyanovsky's type subspace:

$$W(\Lambda) = U(\tilde{\mathfrak{g}}_1)v_\Lambda,$$

where $\tilde{\mathfrak{g}} = \tilde{\mathfrak{g}}_{-1} \oplus \tilde{\mathfrak{g}}_0 \oplus \tilde{\mathfrak{g}}_1$ is a $\mathbb{Z}$-gradation of $\tilde{\mathfrak{g}}$ associated with a $\mathbb{Z}$-gradation $\mathfrak{g} = \mathfrak{g}_{-1} \oplus \mathfrak{g}_0 \oplus \mathfrak{g}_1$. 他们搞了个 PBW spanning set of $W(\Lambda)$, and describe it in terms of difference and initial conditions. The spanning set of the whole standard module $L(\Lambda)$ can be obtained as a limit of the spanning set for $W(\Lambda)$.

2601.19111v1, **Introduction to Quantum Entanglement Geometry**, Kazuki Ikeda

副标题是 Entanglement Filtrationin Azumaya Algebras and Geometric Entanglement in Quantum Systems. 感觉比较物理. The main focus is to characterize the condition under which the subsystem decomposition required to define entanglement exists globally and compatibly

2601.17928v1, **Groups and quandles**, Mohamad Maassarani

A quandle is a set equipped with a binary operation satisfying some axioms. 感觉是什么群论.

2601.19485v1, **On the gauge invariance of the Kuperberg invariant of certain high genus framed 3-manifolds**, Liang Chang, Yilong Wang, Saifei Zhai

gauge invariants of Hopf algebras via topological methods

2601.19455v1, **The kernel of formal polylogarithms**, Polylogarithmic functions 是某个 universal eveloping algebra 中的元素, 他们似乎给出某种判别公式?

2601.19878v1, **Symmetric polynomials: DIM integrable systems versus twisted Cherednik systems**, A. Mironov, A. Morozov, A. Popolitov

不懂

2601.19840v1, **Knot invariants from XC-structures on the Sweedler algebra are trivial**, Jorge Becerra

搞扭结的, 可能是 Reshetikhin-Turaev 那种类型的.


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AG 13 TMD
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