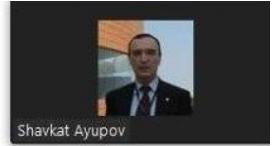


Ilmiy seminarlar davom etmoqda!

2020-yil 7-sentyabr kuni "Operator algebralari va uning tadbiqlari" nomli ilmiy seminar o'tkazildi. Seminarda "Chains of three-dimensional evolution algebras: A description, behavior of the set of absolute nilpotent and idempotent elements" mavzusida tayanch doktorant A.Imomkulov (Matematika instituti) ma'ruba qildi.



$$(3) \quad \mathcal{I}d(E_2^{[s,t]}) = \begin{cases} (0,0,0), & \text{if } (s,t) \in \{(s,t) \in \mathcal{T} : t \geq a\} \\ \{(0,0,0), (1,1,1)\}, & \text{if } (s,t) \in \{(s,t) \in \mathcal{T} : s \leq t < a\} \end{cases}$$



$$(4) \quad \mathcal{I}d(E_3^{[s,t]}) = \begin{cases} (0,0,0), & \text{if } (s,t) \in \{(s,t) \in \mathcal{T} : F(s,t) = 0\} \\ \left\{(0,0,0), \left(\frac{f_n(t)}{F(s,t)}, \frac{g_n(t)}{F(s,t)}, \frac{h_n(t)}{F(s,t)}\right)\right\}, & \text{if } (s,t) \in \{(s,t) \in \mathcal{T} : F(s,t) \neq 0\} \end{cases}$$

where $F(s,t) = f_1(s)(f_n(t) + \psi(s)(g_n(t))^2 + \varphi(s)(h_n(t))^2)$.

$$(5) \quad \mathcal{I}d(E_4^{[s,t]}) = \begin{cases} (0,0,0), & \text{if } (s,t) \in \{(s,t) \in \mathcal{T} : g(t) = 0\} \\ \left\{(0,0,0), \left(\frac{g(s)}{g(t)}, \frac{g(s)f(t)}{(g(t))^2}, \frac{g(s)\varphi(t)}{(g(t))^2}\right)\right\}, & \text{if } (s,t) \in \{(s,t) \in \mathcal{T} : g(t) \neq 0\} \end{cases}$$

$$(6) \quad \mathcal{I}d(E_5^{[s,t]}) = \begin{cases} \{(0,0,0), (1, \psi(t), \varphi(t))\}, & \text{if } (s,t) \in \{(s,t) \in \mathcal{T} : s \leq t < a\}, \\ (0,0,0), & \text{if } (s,t) \in \{(s,t) \in \mathcal{T} : t \geq a\}. \end{cases}$$

Ma'ruzada uch o'lchovli evolyutsion algebralalar oilasining barcha zanjirlar tasnifi tahlil qilindi. Ya'ni ma'lum bir tabiiy bazisga mos strukturaviy matritsalarini Kolmogorov-Chapman tenglamarini qanoatlantiruvchi algebralalar qurildi hamda ularning absolyut nilpotent va idempotent elementlari soni haqida ma'lumot berildi.