

can be continued till the function $\uparrow\uparrow f$ for a unique staroid f of the form $\lambda i \in n: \mathfrak{F}(\mathfrak{A}_i)$. The funcoid f is completary.

For every $\mathcal{X} \in \prod_{i \in n} \mathfrak{F}(\mathfrak{A}_i)$

$$\mathcal{X} \in \text{GR} \uparrow\uparrow f \Leftrightarrow \delta \cap \prod_{i \in n} \text{atoms } \mathcal{X}_i \neq \emptyset. \quad (17.5)$$

Conjecture 17.254. Let R be a set of staroids of the form $\lambda i \in n: \mathfrak{F}(\mathfrak{A}_i)$ where every \mathfrak{A}_i is a boolean lattice. If $x \in \prod_{i \in n} \text{atoms}^{\mathfrak{F}(\mathfrak{A}_i)}$ then $x \in \text{GR} \uparrow\uparrow \prod R \Leftrightarrow \forall f \in R: x \in \uparrow\uparrow f$.

17.18.1 Informal questions

Do products of funcoids and reloids coincide with Tychonov topology?

Limit and generalized limit for multiple arguments.

Is product of connected spaces connected?

Product of T_0 -separable is T_0 , of T_1 is T_1 ?

Relationships between multireloids and staroids.

Generalize the section “Specifying funcoids by functions or relations on atomic filters” from [28].

Generalize “Relationships between funcoids and reloids”.

Explicitly describe the set of complemented funcoids.