a, b, c trois modules quelconques

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En passant la souris sur une vignette, le titre de l'image apparaît.

2 Fichier(s)

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Présentation

Titrea, b, c trois modules quelconques
Date188x
Sujet

- modules
- nombres de classes
- notation2
- trois modules

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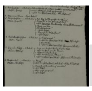
Description & Analyse

DescriptionPropriétés des nombres de classes pour 3 modules a, b, c
Mode(s) d'écritureEsquisse de rédaction ou preuve
Auteur·es de la descriptionHaffner, Emmylou

Relations

Collection Cod. Ms. Dedekind X 11-1

Ce document utilise la même notation que :

Meilleure présentation pour 3 modules a, b, c

Afficher la visualisation des relations de la notice.

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Mots-clefs

modules, nombres de classes, notation2, trois modules
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$\mathfrak{a}, \mathfrak{b}, \mathfrak{c}$ drei beliebige Moduln

$\mathfrak{a}' = \mathfrak{b}+\mathfrak{c}$ d. gr. g. Th. von $\mathfrak{b}, \mathfrak{c}$
$\mathfrak{b}' = \mathfrak{c}+\mathfrak{a}$ " " " " " $\mathfrak{c}, \mathfrak{a}$
$\mathfrak{c}' = \mathfrak{a}+\mathfrak{b}$ " " " " " $\mathfrak{a}, \mathfrak{b}$

$$\mathfrak{a}+\mathfrak{a}' = \mathfrak{b}+\mathfrak{b}' = \mathfrak{c}+\mathfrak{c}'$$

$\mathfrak{a}'' = \mathfrak{b}'-\mathfrak{c}'$ d. kl. g. Vielfach. von $\mathfrak{b}', \mathfrak{c}'$
$\mathfrak{b}'' = \mathfrak{c}'-\mathfrak{a}'$ " " " " " $\mathfrak{c}', \mathfrak{a}'$
$\mathfrak{c}'' = \mathfrak{a}'-\mathfrak{b}'$ " " " " " $\mathfrak{a}', \mathfrak{b}'$

$$\cancel{\mathfrak{a}-\mathfrak{a}'' = \mathfrak{b}-\mathfrak{b}'' = \mathfrak{c}-\mathfrak{c}''}$$
$$\mathfrak{a}'-\mathfrak{a}'' = \mathfrak{b}'-\mathfrak{b}'' = \mathfrak{c}'-\mathfrak{c}''$$

So ist

$$(\mathfrak{b}, \mathfrak{a}) = (\mathfrak{c}', \mathfrak{a})$$

Da ferner $\mathfrak{a}$ gem. Theil. von $\mathfrak{b}', \mathfrak{c}'$, so ist $\mathfrak{a}$ Theil. von $\mathfrak{a}''$ und da $\mathfrak{a}''$ Theil. von $\mathfrak{c}'$, so folgt

$$(\mathfrak{c}', \mathfrak{a}) = (\mathfrak{c}', \mathfrak{a}'')(\mathfrak{a}'', \mathfrak{a})$$

Also

$$(\mathfrak{b}, \mathfrak{a}) = (\mathfrak{c}', \mathfrak{a}'')(\mathfrak{a}'', \mathfrak{a}) \quad ; (\mathfrak{a}, \mathfrak{b}) = (\mathfrak{c}', \mathfrak{b}'')(\mathfrak{b}'', \mathfrak{b})$$
$$(\mathfrak{a}, \mathfrak{c}) = (\mathfrak{b}', \mathfrak{c}'')(\mathfrak{c}'', \mathfrak{c}) \quad ; (\mathfrak{c}, \mathfrak{a}) = (\mathfrak{b}', \mathfrak{a}'')(\mathfrak{a}'', \mathfrak{a})$$
$$(\mathfrak{c}, \mathfrak{b}) = (\mathfrak{a}', \mathfrak{b}'')(\mathfrak{b}'', \mathfrak{b}) \quad ; (\mathfrak{b}, \mathfrak{c}) = (\mathfrak{a}', \mathfrak{c}'')(\mathfrak{c}'', \mathfrak{c})$$

3a

Ausserdem ist $\qquad \mathfrak{d} = \mathfrak{b}'+\mathfrak{c}' = \mathfrak{a}+\mathfrak{b}+\mathfrak{c}$

$$(\mathfrak{c}', \mathfrak{a}'') = (\mathfrak{c}', \mathfrak{b}'-\mathfrak{c}') = (\mathfrak{c}', \mathfrak{b}') = (\mathfrak{b}'+\mathfrak{c}', \mathfrak{b}') = (\mathfrak{d}, \mathfrak{b}') = (\mathfrak{b}, \mathfrak{b}')$$

$$(\mathfrak{b}, \mathfrak{a}) = (\mathfrak{d}, \mathfrak{b}')(\mathfrak{a}'', \mathfrak{a}) \quad ; (\mathfrak{a}, \mathfrak{b}) = (\mathfrak{d}, \mathfrak{a}')(\mathfrak{b}'', \mathfrak{b})$$
$$(\mathfrak{a}, \mathfrak{c}) = (\mathfrak{d}, \mathfrak{a}')(\mathfrak{c}'', \mathfrak{c}) \quad ; (\mathfrak{c}, \mathfrak{a}) =$$

$$(\mathfrak{b}, \mathfrak{a}) = (\mathfrak{b}, \mathfrak{b}')(\mathfrak{a}'', \mathfrak{a}) \quad ; (\mathfrak{a}, \mathfrak{b}) = (\mathfrak{a}, \mathfrak{a}')(\mathfrak{b}'', \mathfrak{b})$$
$$(\mathfrak{a}, \mathfrak{c}) = (\mathfrak{a}, \mathfrak{a}')(\mathfrak{c}'', \mathfrak{c}) \quad ; (\mathfrak{c}, \mathfrak{a}) = (\mathfrak{c}, \mathfrak{c}')(\mathfrak{a}'', \mathfrak{a})$$
$$(\mathfrak{c}, \mathfrak{b}) = (\mathfrak{c}, \mathfrak{c}')(\mathfrak{b}'', \mathfrak{b}) \quad ; (\mathfrak{b}, \mathfrak{c}) = (\mathfrak{b}, \mathfrak{b}')(\mathfrak{c}'', \mathfrak{c})$$

Also

$$(\mathfrak{b}, \mathfrak{a})(\mathfrak{a}, \mathfrak{c})(\mathfrak{c}, \mathfrak{b}) = (\mathfrak{a}, \mathfrak{b})(\mathfrak{c}, \mathfrak{a})(\mathfrak{b}, \mathfrak{c})$$

Hieraus rückwärts: 1) Ist $\mathfrak{c} = \mathfrak{a}+\mathfrak{b} = \mathfrak{d}$, so ist

$$(\mathfrak{b}, \mathfrak{a})(\mathfrak{c}, \mathfrak{b}) = (\mathfrak{a}, \mathfrak{b})(\mathfrak{c}, \mathfrak{a})$$

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