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SPECIAL RESOLUTIONS

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$\mu = \frac{1}{n} \sum_{j=1}^n x_j$

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\mathbb{Z}^n 上的 \mathbb{Z} -模同态 $\varphi: \mathbb{Z}^n \rightarrow \mathbb{Z}^n$ 由 $n \times n$ 矩阵 $A = (a_{ij}) \in M_n(\mathbb{Z})$ 给出, 即 $\varphi(x) = Ax$. 设 φ 的秩为 r , 则 A 的秩为 r . 由秩-零化度定理, $\dim \ker \varphi = n - r$. 设 \mathcal{B}_1 为 $\ker \varphi$ 的一组基, \mathcal{B}_2 为 $\ker \varphi$ 的补空间的一组基, 则 $\mathcal{B} = \mathcal{B}_1 \cup \mathcal{B}_2$ 为 \mathbb{Z}^n 的一组基. 在基 \mathcal{B} 下, φ 的矩阵表示为 $\begin{pmatrix} 0 & 0 \\ 0 & A' \end{pmatrix}$, 其中 A' 为 $r \times r$ 可逆矩阵. 由 \mathbb{Z} -模同态 φ 的秩为 r 可知, A' 的秩为 r . 由 \mathbb{Z} -模同态 φ 的秩为 r 可知, A' 的秩为 r . 由 \mathbb{Z} -模同态 φ 的秩为 r 可知, A' 的秩为 r .

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\mathbb{A}^1 -homotopy theory, the \mathbb{A}^1 -homotopy groups of a space X are defined as the homotopy groups of the \mathbb{A}^1 -homotopy sheaf $\pi_n(X)$. The \mathbb{A}^1 -homotopy groups of a space X are defined as the homotopy groups of the \mathbb{A}^1 -homotopy sheaf $\pi_n(X)$. The \mathbb{A}^1 -homotopy groups of a space X are defined as the homotopy groups of the \mathbb{A}^1 -homotopy sheaf $\pi_n(X)$.

\mathbb{M}^n is a manifold with a metric tensor g and a volume form μ . The metric tensor g is a symmetric, positive definite bilinear form on the tangent space $T_x \mathbb{M}^n$ at each point $x \in \mathbb{M}^n$. The volume form μ is a non-vanishing n -form on \mathbb{M}^n . The metric tensor g and the volume form μ are related by the equation $\mu = \sqrt{\det g} dx^1 \wedge \dots \wedge dx^n$.

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