

## Werk

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## SUMMARIES OF ARTICLES PUBLISHED IN THIS ISSUE

(Publication of these summaries is permitted)

MIROSLAV DONT, Praha: Poznámka o lineární míře Vituškinových množin. (A note on linear measure of Vitushkin's sets.) Čas. pěst. mat. 105 (1980), 23—30. (Original paper.)

It is shown that there is a compact set  $M \subset \langle 0, 1 \rangle \times \langle 0, 1 \rangle \subset \mathbb{R}^2$  with linear Hausdorff measure 1 but such that its orthogonal projections on the coordinate axes are the whole segments  $\langle 0, 1 \rangle \times \{0\}, \{0\} \times \langle 0, 1 \rangle$ . The construction of that set is the same as Vitushkin's construction of the set with positive linear measure but with zero analytic capacity.

ALOIS KLIČ, Praha: On exceptional values of holomorphic mappings of Riemann surfaces. Čas. pěst. mat. 105 (1980), 41-55. (Original paper.)

Let  $f: V \to M$  be a holomorphic mapping from an open Riemann surface V into a closed Riemann surface M. In this paper the generalized Cartan's formulae are derived. These formulae are used to prove theorems giving sufficient conditions for  $\delta(a_0) = 0$ ,  $a_0 \in M$ .

KAREL SVOBODA, Brno: On characterization of the sphere in E<sup>4</sup> by means of the parallelness of certain vector fields. Čas. pěst. mat. 105 (1980), 56-72. (Original paper.)

In this paper the author presents a certain generalization of the result contained in his previous paper. Using the parallelness of a certain normal vector field associated to a given couple of tangent vector fields, the author proves theorems analogous to those of his previous paper to get the base for other considerations.

Anton Dekrét, Zvolen: On forms and connections on fibre bundles. Čas. pěst. mat. 105 (1980), 73-80. (Original paper.)

In this paper some properties of the differentiations of type  $i_*$  on A(E) determined by the connection form  $v: TE \to VTE$  and by the curvature form  $\Phi: TE \land TE \to VTE$  of a connection  $\Gamma: E \to J^1E$  on a fibre space  $\pi: E \to J^1E$  on a fibre spac