Cardinal Numbers of Some Sets (VII)

Yang An-zhou (楊安州)

Let X be an infinite set, $C=\{G: G$ is an Abel group defined on the $X\}$, Define $\hat{G}=\{H: H$ and G are isomorphic groups$\}=\{H: H\cong G\}$, $C_1=\{\hat{G}: G\in C\}$; $K=\{B: B$ is a Boolean algebra defined on the $X\}$, $K_1=\{\hat{B}: B\in K\}$, then $|C|=|C_1|=|K|=|K_1|=2^{|X|}$.

Department of mathematics,
The Industrial University of Peking,
February 27, 1983.

Correction to "Some Theorems on the Spaces of Quasi-constant Curvature" (Vol. 3 (1983) No. 1, 1-16)

Hwang Cheng-Chung

In view of $V\neq 0$, the relation

$$V=f(x^n)\frac{\partial U}{\partial x^n}$$

(P. 6, line 16) should be replaced by

$$\frac{\partial U}{\partial x^n}=f_0(x^n)V \qquad (*)$$

with $f_0=1/f$, and (3.12) should be changed to the form

$$ds^2=\frac{1}{U^2}\Big[\sum_{a=1}^{n-1}(dx^a)^2+V^2(dx^n)^2\Big]$$

where V and U are connected by the relation $(*)$. After altering the formulation in such a way, we are justified to consider the limiting case $f_0=0$, which has been unconsciously omitted in discussion. As a result, in the conclusions of Theorems V, VI, VII, in addition to the possible cases listed in the paper, we should add "*the direct product of a space of constant curvature and a line segment*". More precisely, Theorem V should be stated as.

"*For a QC space (M, g) to be locally symmetric, M must be a space of constant curvature, or the direct product of a space of constant curvature and a line segment*" and etc. All the proofs remain valid.