

MEMO CP-A/133

13-Feb-2003

To: **Distribution**
From: **F.E. Chukreev**
Subject: **Fundamental particles** (memos CP-C/314, CP-D/349, CP-C/317)
Memo CP-C/317 proposed to use the set of codes in EXFOR:

Kaons **0-KA-0**
Kaons, negative 0-KN-0
Kaons, positive 0-KP-0
Pions 0-PI-0
Pions, neutral 0-P0-0
Pions, negative 0-PN-0
Pions, positive 0-PP-0
Anti-proton **1-AP-1**

I would like to propose to modify the set.

1. Kaons family:

Neutral K **0-KA-0**
Neutral anti-K **0-AK-0**
Positive K **1-KP-0**
Negative K **-1-KN-0**

2. π family:

Neutral π **0-P0-0**
Positive π **1-PP-0**
Negative π **-1-PN-0**

3 Antiproton

-1-AP--1

The codes can be used in Dictionary 27, as usual nuclides. Checking of two conservation laws (electric and barion charges) will be possible. Unusual is negative electric and barion charges. But I do not see a reason to forbid negative numbers. Of course, checking another conservation laws (beauty, charm etc) is impossible now.

We attempt to prepare first draft of draft for general system to code fundamental particles and I hope to disseminate our proposals before 15 March.

Unspecified adrons: The adrons are using, when an experiment does not distinguish electric charge detected adrons. For the case must be used, for example, **((beam(target,product)1-PP-0,,sig)+(beam(target, product)1-PN-0))**

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