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Memo CP-D/755

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To: Distribution
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Subject: **Detector code SPEC (Large spectrometer system)**
Reference: Memo CP-A/148, CP-C/332

The original idea of the detector code SPEC (Large spectrometer system) is to simplify coding of large and complex detector (spectrometer) systems seen in high-energy or radioactive beam experiments. The code was originally proposed by F. Chukreev to compile fragment production cross sections measured in $^{12}C+^{1}H$ inverse kinematics experiments with the ANOMALON spectrometer in JINR for EXFOR A0660 and A0661 in 2004. Chukreev originally proposed *very complex detector system* for its expansion. Then V. McLane submitted a counter proposal *large spectrometer system*, and it is adopted in the current dictionary.

Recently this code was inappropriately applied to 4π germanium spectrometers or time-of-flight spectrometers in some neutron entries. After discussion with the compiler, I understand that we need additional explanation to avoid misuse of this code by new compilers who do not know above discussion.

I propose the following addition (italicized part) to LEXFOR **Measurement Techniques** and dictionary 22:

> For telescopes or spectrometers, the code TELES or the code for the spectrometer may be entered followed by the component detectors.
>
> Examples: (TELES,PROPC,SCIN)
> (MAGSP,MWDC,SCIN)
>
> *When the spectrometer system is complex and cannot be expressed by a few set of detector codes clearly (e.g., high-energy experiment, radioisotope beam experiment), the code SPEC (large spectrometer system) may be used instead of the set of detector codes.*

Dictionary 22 (Detectors)

SPEC	Large spectrometer system *for spectrometer which cannot be expressed by a set of detector codes clearly.*

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