



# LumiDoz-10

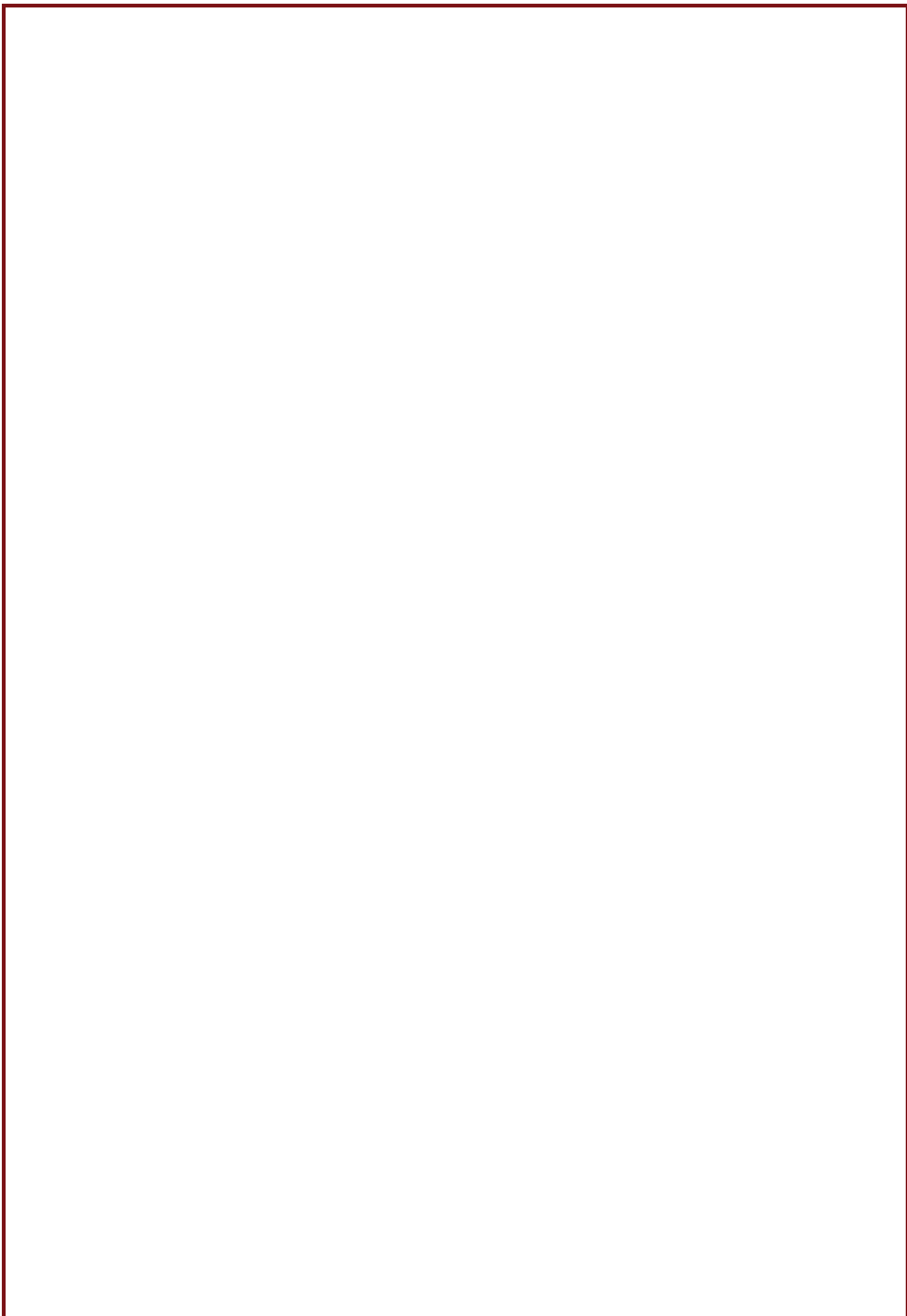
**10<sup>th</sup> International Conference on  
Luminescence and ESR Dosimetry**

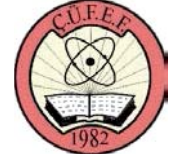
## Book of Abstracts



**5-7 September 2016  
Çukurova University, Adana, TURKEY**

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## **Book of Abstracts**

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## Dose Response of Apatite Mineral for Beta Doses

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### Abstract

In this study, dose response of irradiated natural apatite, which were collected from Malatya in the region of Doğanşehir, has been measured over the dose range from 65 cGy to 125 Gy using heating rate of 1°C/s in Riso TL/OSL DA-20 reader under the nitrogen atmosphere. The measurement results show that the beta-irradiated samples have three peaks at around 80°C, 135°C, and 230°C, respectively. Furthermore the beta dose linearities of TL glow peaks at 135°C and 230°C have been studied in detail.

**Keywords:** *Dose response, Thermoluminescence, Natural apatite, Dose linearity.*

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