## **Turkish Journal of Physics**

Turkish Journal	Thermal Stability of Fe <sub>85.5</sub> B <sub>14.5</sub> Metallic Glass
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Physics	Thermal Physics Laboratory, Department of Physics, Quaid-i-Azam University, Islamabad, PAKISTAN
	<u>Abstract:</u> The thermal stability and crystallization behaviour of metallic glass Fe\( $_{85.5}$ \)B\( $_{14.5}$ \) were
Keywords Authors	investigated by Dynamic Temperature Resistivity Measurement (DTRM) technique from room temperature to 1050K in forward and reverse mode at a heating rate of 40 K/hr. The slope of Resistivity- Temperature-Curve (RTC) changes sign and magnitude at the temperature where the transition takes place. Differential Thermal Analysis (DTA) was carried out at the heating rates of 10, 20, 30 \& 40 K/min. A comparison of the results of DTRM and DTA measurements shows that crystallization in this alloy is two-stage process. Activation energy for two crystallization steps was calculated from DTA data, using
@	various peak shift equations. The activation energy for first step was found to be lower than the second.
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