

**DETERMINATION OF TYPES OF SOLAR BURSTS AT RANGE  
150 MHz- 400 MHz**

**NAJWA BINTI HAMZAN**

**BACHELOR OF SCIENCE (Hons.) PHYSICS  
FACULTY OF APPLIED SCIENCES  
UNIVERSITI TEKNOLOGI MARA**

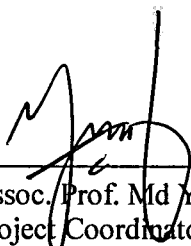
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This final Year Project entitled “**Determination of Types of Solar Bursts at Range 150 MHz – 400 MHz**” was submitted by Najwa Bt. Hamzan, in partial fulfillment of the requirements for the Degree of Bachelor of Science (Hons.) Physics, in the Faculty of Applied Sciences and was approved by



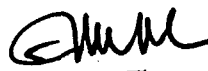
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Miss Zetty Sharizat Bt Hamidi  
Supervisor  
Faculty of Applied Sciences  
Universiti Teknologi MARA  
40450 Shah Alam  
Selangor



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Assoc. Prof. Md Yusuf Theeran  
Project Coordinator  
B.Sc(Hons.)Physics  
Faculty of Applied Sciences  
Universiti Teknologi MARA  
40450 Shah Alam



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Dr. Abdul Malik Marwan Ali  
Head of programme  
B.Sc(Hons.)Physics  
Faculty of Applied Sciences  
Universiti Teknologi MARA  
40450 Shah Alam

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## **ABSTARCT**

### **DETERMINATION OF TYPES OF SOLAR BURSTS AT RANGE 150MHz –400 MHz**

We determine the types of solar bursts at range of 150 MHz till 400 MHz at low frequency region. The bursts occurred on 9<sup>th</sup> March 2012 at National Space Centre, Sg. Lang, Selangor, Malaysia. The chronology dynamical structure of solar bursts due to solar flares and Coronal Mass Ejections (CMEs) such as type II, III, U, IV and narrowband spikes (decimeter wavelengths) will be highlighted. Observation has shown that solar flare type M6.3 which occurred at active region AR 1429 starting from 3:32 UT and ending at 5:00 UT. This flare has confirmed to be the largest flare since 2005. Some physical parameter such as frequency drift (shock wave speed) also is measured. We then compare our results with X- ray data from NOAA Space Weather Prediction Center (SWPC).