

PALACKÝ UNIVERSITY OLMOUC
FACULTY OF SCIENCE
JOINT LABORATORY OF OPTICS

DIPLOMOVÁ THESIS

Unnamed



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| Author: | Daniel Staník |
| Study program: | N0533A110002 Applied Physics |
| Field of study: | 1702T001 Applied Physics (AFYZ) |
| Form of study: | Full-time |
| Supervisor: | |
| Deadline: | April 2024 |

DECLARATION

I hereby declare that I elaborated this bachelor thesis independently under the supervision of , using only information sources referred in the Literature chapter.

In Olomouc October 23, 2022

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Daniel Staník

Bibliografická identifikace

| | |
|-------------------------|--------------------------------------|
| Jméno a příjmení autora | Daniel Staník |
| Název práce | Bez jmena |
| Typ práce | Diplomová |
| Pracoviště | Společná laboratoř optiky |
| Vedoucí práce | |
| Konzultant | |
| Rok obhajoby práce | 2024 |
| Abstrakt | Holy moly kihsdlnngleiodnnglkdngdsrg |
| Klíčová slova | |
| Počet stran | 10 |
| Počet příloh | 1 |
| Jazyk | anglický |

Bibliographical identification

| | |
|--------------------------------|-----------------------------------|
| Autor's first name and surname | Daniel Staník |
| Title | Unnamed |
| Type of thesis | Master |
| Department | Joint Laboratory of Optics |
| Supervisor | |
| Consultant | |
| The year of presentation | 2024 |
| Abstract | Holy moly kihsdlngeiodnglkdngdsrg |
| Keywords | |
| Number of pages | 10 |
| Number of appendices | 1 |
| Language | english |

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Introduction

Chapter 1

Mössbauer effect

1.1 Physical concept

1.2 Fe^{57} spectroscopy

Chapter 2

Gamma rays detection and spectroscopy techniques

2.1 Properties and parameters of detectors

2.1.1 Gaseous detectors

2.1.2 Detectors based on semiconductors

2.2 Construction scheme of Instruments for gamma detection

2.2.1 XR-100CdTe X-Ray and Gamma Ray Detector

2.2.2 MIMOS 2

2.3 Available semiconductor sensors

Conclusion

The work on thesis was both very hard and experiencing, and thus it can be compared to have to chug a bottle of 50% vodka - get sick, get experienced.