

POLYNOMIAL IDENTITIES INVOLVING CENTRAL FACTORIAL NUMBERS

PETRO KOLOSOV

ABSTRACT. Based on D. E. Knuth's manuscript entitled "Johann Faulhaber and Sums of Powers" we provide and discuss a set of identities in terms of polynomials, central factorial numbers and falling factorials. All the results of this manuscript could be validated using supplementary Mathematica programs.

CONTENTS

| | |
|---------------------------------|---|
| 1. Introduction | 1 |
| 2. Conclusions | 1 |
| References | 1 |

1. INTRODUCTION

Your introduction here.

2. CONCLUSIONS

Conclusions of your manuscript.

REFERENCES

Version: Local-0.1.0

Email address: kolosovp94@gmail.com

URL: <https://kolosovpetro.github.io>

Date: July 23, 2023.

2010 *Mathematics Subject Classification.* 26E70, 05A30.

Key words and phrases. Polynomials, Polynomial identities, Faulhaber's formula, Central Factorial Numbers .