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## Errata for Manuscript #34

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# Errata for Manuscript #34

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## I. INTRODUCTION

Errors have been found in the manuscript David, Carl W., “The Laplacian in Spherical Polar Coordinates” (2007). Chemistry Education Materials.

34. [https://opencommons.uconn.edu/chem\\_educ/34](https://opencommons.uconn.edu/chem_educ/34) which are corrected herein.

## II. IN ENGLISH

Equation 5.4 in the original should read

$$-\left(\frac{\sin\theta}{r}\right)\left(-\sin\theta\frac{\partial}{\partial r}-\frac{\cos\theta}{r}\frac{\partial^2}{\partial r\partial\theta}\right)-\frac{\sin\theta\cos\theta}{r^2}\frac{\partial}{\partial\theta}+\left(\frac{\sin\theta}{r}\right)^2\frac{\partial^2}{\partial\theta^2}$$

which is the proper expansion of the second term on the r.h.s. of Equation 5.2.

chemiky, 34. [https://opencommons.uconn.edu/chem\\_educ/34](https://opencommons.uconn.edu/chem_educ/34) byly nalezeny chyby, které jsou zde opraveny.

## III. IN CZECH

Ve spisu Carla W. Davida: Laplasián ve sférických polárních souřadnicích (2007). Vzdělávací materiály pro

## IV. PRVNÍ OPRAVA

Namísto rovnice 5.4 v originálním spisu by měla stát rovnice následující

$$-\left(\frac{\sin\theta}{r}\right)\left(-\sin\theta\frac{\partial}{\partial r}-\frac{\cos\theta}{r}\frac{\partial^2}{\partial r\partial\theta}\right)-\frac{\sin\theta\cos\theta}{r^2}\frac{\partial}{\partial\theta}+\left(\frac{\sin\theta}{r}\right)^2\frac{\partial^2}{\partial\theta^2}$$

což je správné rozšíření předcházející rovnice 5.2.

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