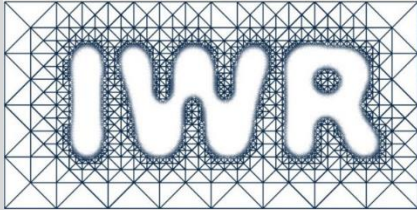


Studienarbeit Lehramt
Institute of Scientific Computing
Technische Universität Dresden



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In „the Simpsons“, you can find more mathematics than in any other TV series. Some of the members of the team of authors are Mathematicians with advanced degrees from Harvard and Yale and some of them even gave up their academic career in order to be part of the team that writes the script for Homer, Marge and all the other citizens of Springfield.

Absolute and narcissistic numbers as well as Mersenne primes appear, they make jokes about the Fermat's last theorem as " $3987^{12} + 4365^{12} = 4472^{12}$ ", you can find formulas of the mass of the Higgs boson as well as many other allusions regarding solved and unsolved problems in mathematics – always just really short, but if you have a closer look, you can find many of these freeze-frame gags.



In this *Studienarbeit*, you should identify several of these examples and its mathematical background should be evaluated in each case.

Prerequisite for writing this *Studienarbeit* is an overall interest in mathematical problems and its medial implementation. Furthermore, you should like the Simpsons.

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Literature:

S. Singh: "*The Simpsons and their mathematical secrets*", Bloomsbury Publishing, 2013.