

СЪЮЗ НА МАТЕМАТИЦИТЕ В БЪЛГАРИЯ  
ИНСТИТУТ ПО МАТЕМАТИКА И ИНФОРМАТИКА – БАН

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## НАЦИОНАЛЕН КОЛОКВИУМ ПО МАТЕМАТИКА

Поредната сбирка на Колоквиума ще се състои онлайн на 15 септември 2021 г. (сряда)  
от **17:15** часа в Zoom:

<https://us02web.zoom.us/j/87837263018?pwd=OVI5MINxdHBIZUs1c1B4WHNseEVWUT09>

Meeting ID: 878 3726 3018

Passcode: 805011

Доклад на тема:

*THE WORM DOMAIN AND THE BERGMAN KERNEL*

ще изнесе

Prof. Steven G. Krantz,

Washington University in St. Louis, САЩ

[https://en.wikipedia.org/wiki/Steven\\_G.\\_Krantz](https://en.wikipedia.org/wiki/Steven_G._Krantz)

*Ръководител на Колоквиума: акад. П. Попиванов*

# THE WORM DOMAIN AND THE BERGMAN KERNEL

**Prof. Steven G. Krantz,  
Washington University in St. Louis, CAIII**

## **Абстракт.**

In joint work with Marco Peloso we analyze the Bergman kernel on a version of the Diederich-Fornaess worm domain that was developed by Christer Kiselman. We are able to obtain an asymptotic expansion for the kernel. And we can study the mapping properties of the Bergman projection. They are quite pathological. We also discuss more recent work with Caterina Stoppato.