
From: SB (Serguei Belousov) <████████>
Sent: Tuesday, January 23, 2018 2:03 AM
To: jeffrey E.
Subject: FW: bio computing and algebraic topology

-----Original Message-----

From: Коняев Андрей [mailto:████████]
Sent: Monday, January 22, 2018 10:44 PM
To: SB (Serguei Belousov) <████████>
Subject: bio computing and algebraic topology

Hi!

Looked over some articles, asked some fellow-mathematicians and this is what I have got (keep in mind that I don't fully understand what bio-computing=means in this context).

The algebraic topology is used in computational models of protein folding. It's not new, but the progress in the field is quite slow. I believe there is no effective computational models here yet.

The other use of topology is study of graphs of organic compounds, drugs in=particular. I have heard that there are some progress here, it is possible=to do calculations here with some non-trivial results. In Russia there's a=company called Biocad, that does that.

Finally the third topology use is neuroscience. It is something of this kind: <https://arxiv.org/pdf/1605.01905.pdf>

If there's a particular project, I think I can give more specific answer>

Regards,

Andrei Konyaev

```
<?xml version=.0" encoding=TF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version=.0">
<dict>
    <key>conversation-id</key>
    <integer>34979</integer>
    <key>date-last-viewed</key>
    <integer>0</integer>
    <key>date-received</key>
    <integer>1516672969</integer>
    <key>flags</key>
    <integer>8590195717</integer>
    <key>gmail-label-ids</key>
    <array>
        <integer>6</integer>
        <integer>2</integer>
    </array>
```

```
<key>remote-id</key>
<string>789505</string>
</dict>
</plist>
```