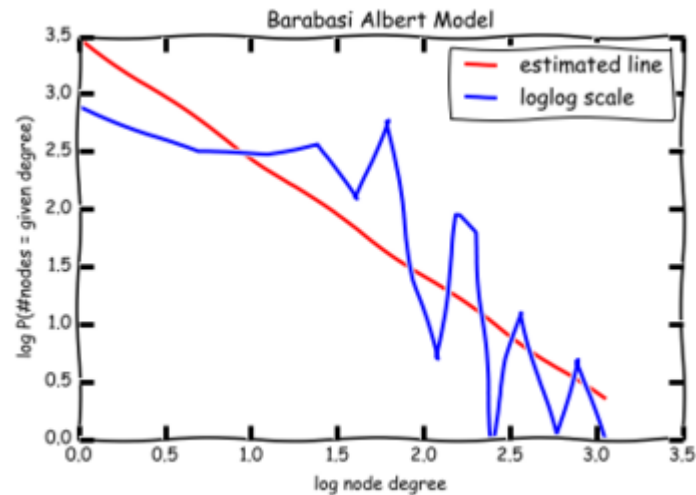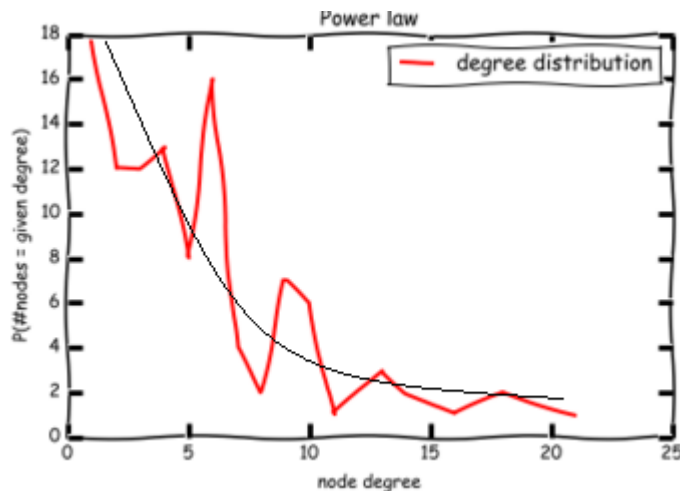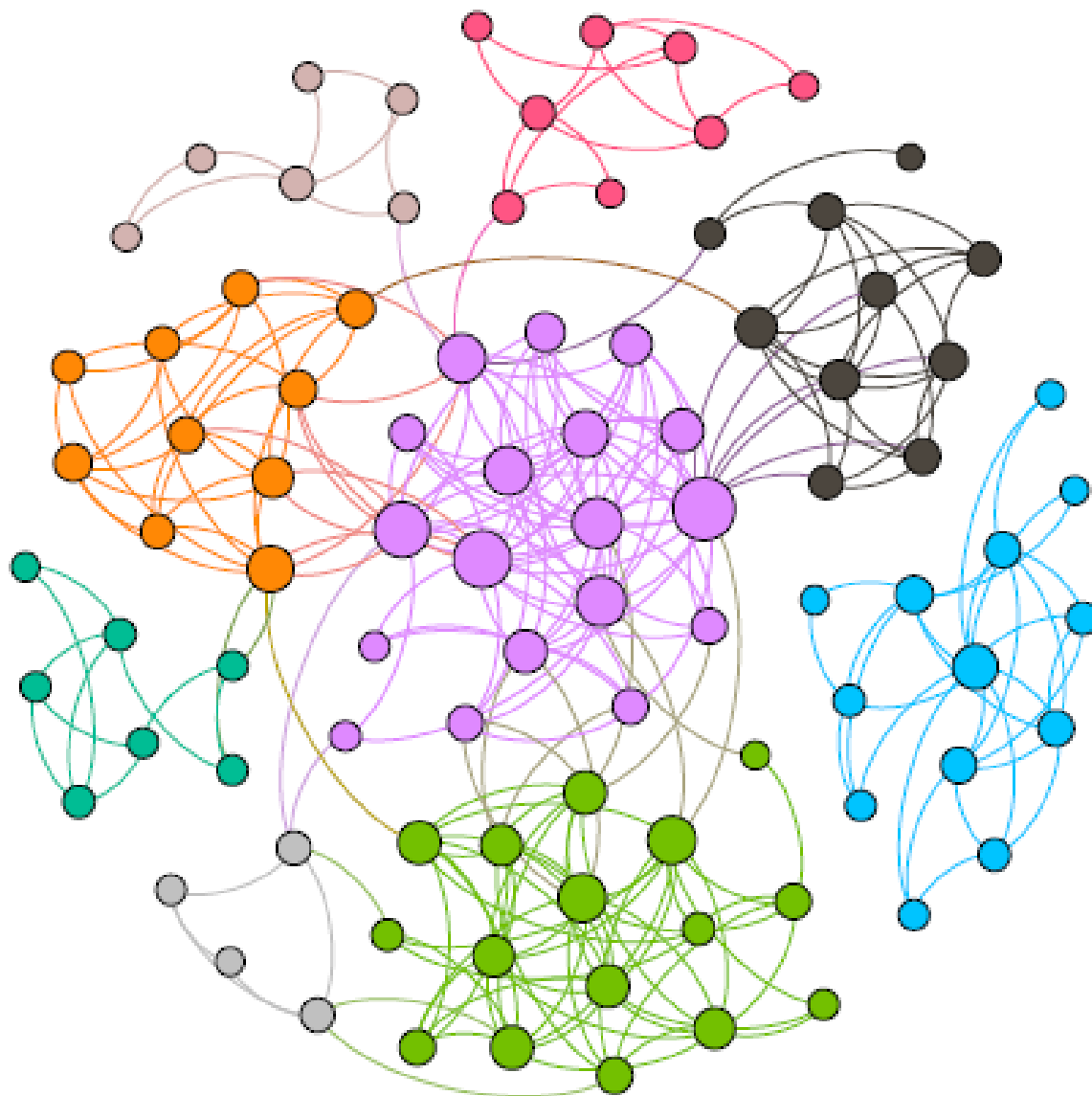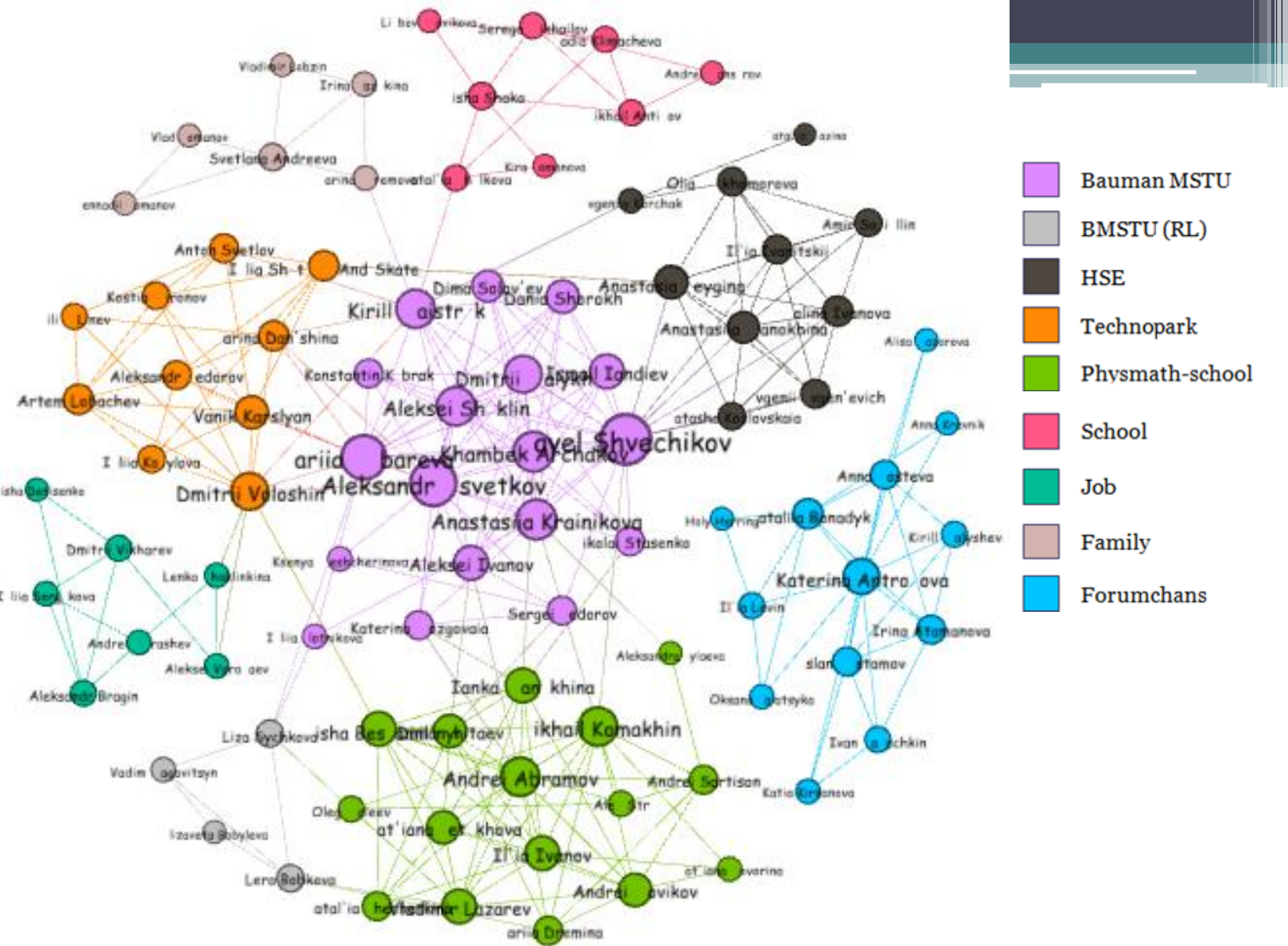# NS: Project1

Elena Andreeva

Network summary

- Order: 128 nodes
- Size: 304 edges
- Clustering coefficient: 0.413
- Diameter 2 (or 6, without me)
- Might be generated by Barabashi-Albert Model

Network picture

Legend:
- Bauman MSTU
- BMSTU (RL)
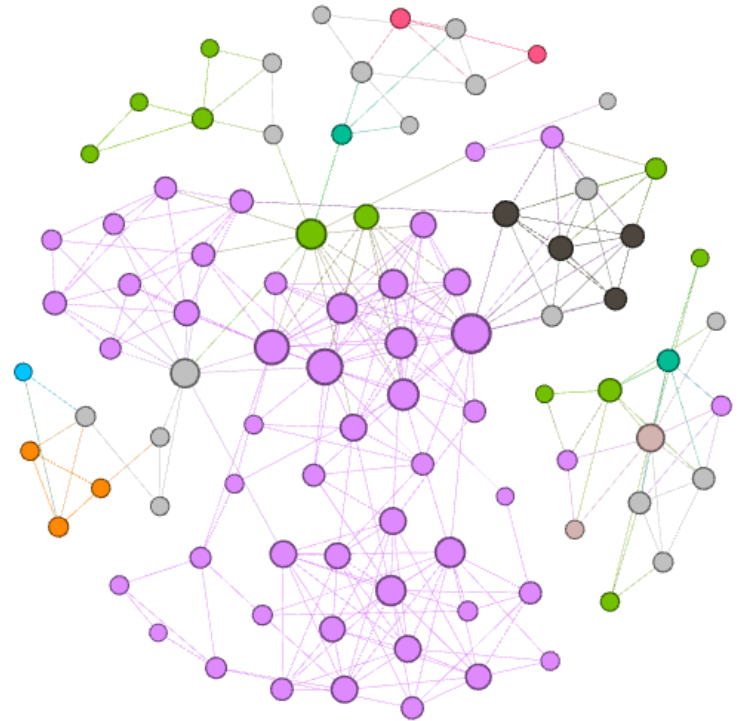- HSE
- Technopark
- Physmath-school
- School
- Job
- Family
- Forumchans

Assortativity

- Degree: 0.276
- Gender: 0.110
- Age_group:0.237
- City: 0.06
- University:0.350

- University is the most influential, degree and age are important, too.

Degree centrality

Top-6

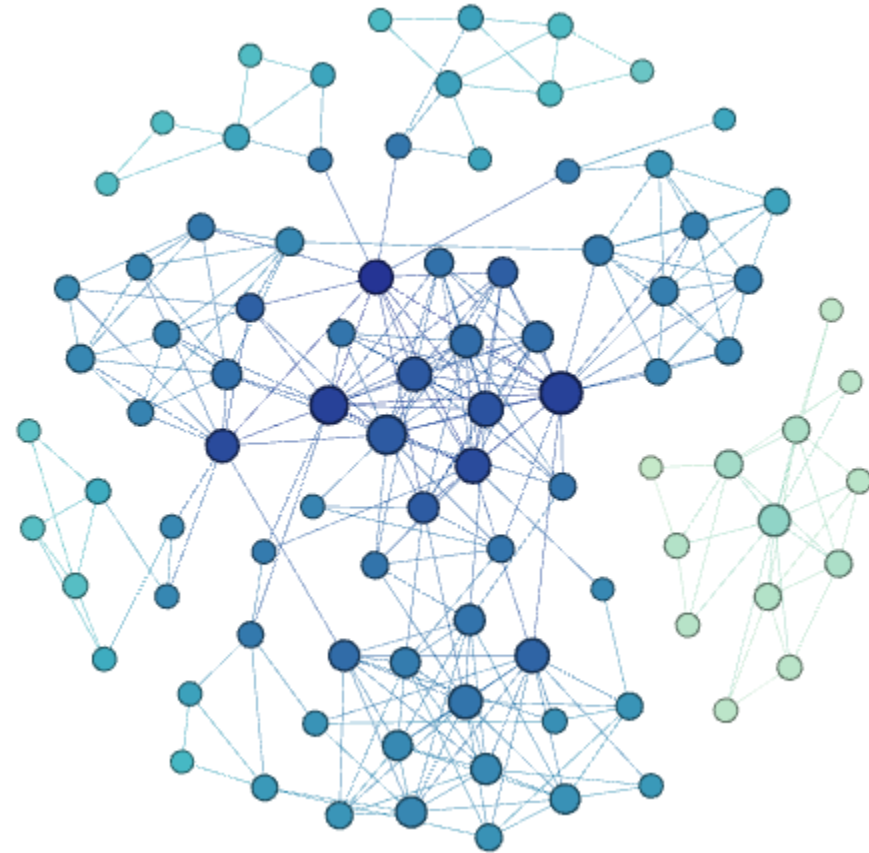|	
21	Pavel Shvechikov
18	Mariia Zubareva
18	Aleksandr Tsvetkov
16	Anastasiia Krainikova
14	Khambek Archakov
14	Kirill Maistruk

Pavel is my groupmate in square –
we studied together in BMSTU and now
in HSE. So he knows people from both
Universities ☺

Closeness centrality

Top-5

```
0.305735680099   Kirill Maistruk
0.290093389489   Mariia Zubareva
0.290093389489   Pavel Shvechikov
0.278437851519   Dmitrii Voloshin
0.278437851519   Anastasiia Krainikova
```
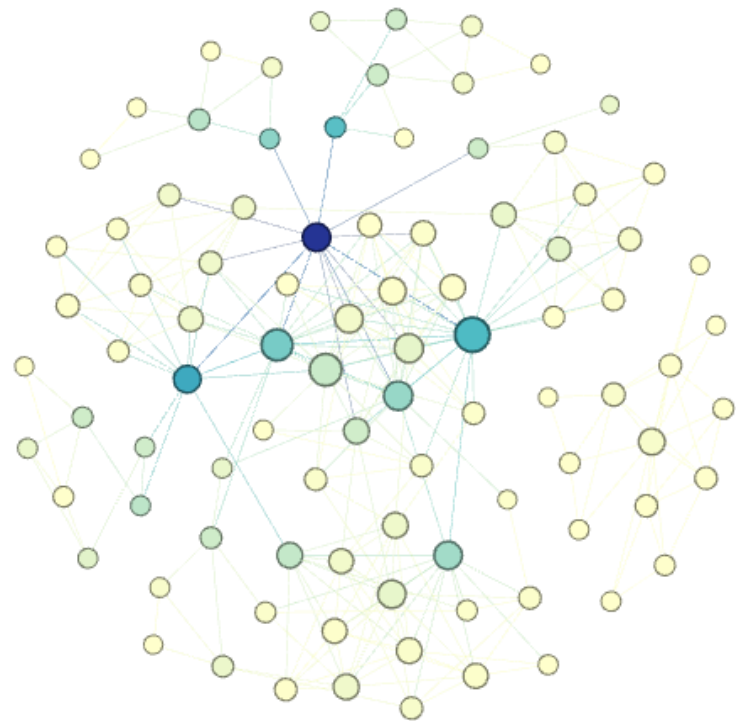

Kirill is my bf (→ he knows my family,
 some of my classmates..),
 and he also attends BMSTU and Technopark classes.

Betweennes centrality

Top-5

```
0.208776450044  Kirill Maistruk
0.114366836023  Dmitrii Voloshin
0.0969644769368 Pavel Shvechikov
0.0911448568929 Natal'ia Chulkova
0.0742206951463 Mariia Zubareva
```


Dmitry is a director of Technopark – he connects People from Mail.Ru, BMSTU and Technopark.
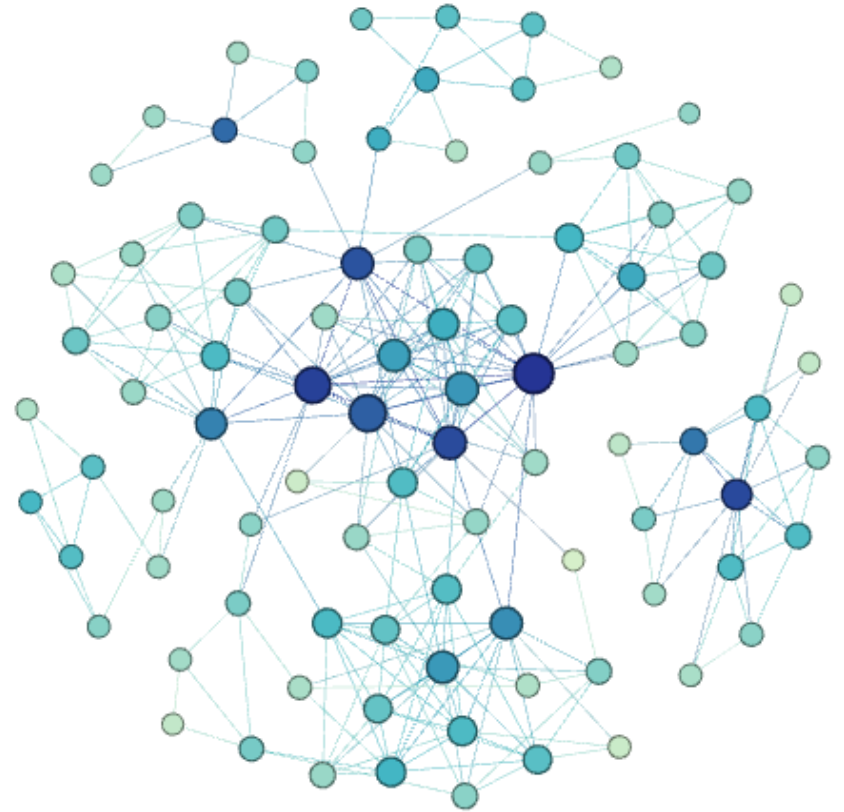
PageRank

Top-5

```
0.0213521866608 Pavel Shvechikov
0.0203569949292 Mariia Zubareva
0.0197094009195 Katerina Antropova
0.0195606114089 Anastasiia Krainikova
0.0189887099969 Kirill Maistruk
```


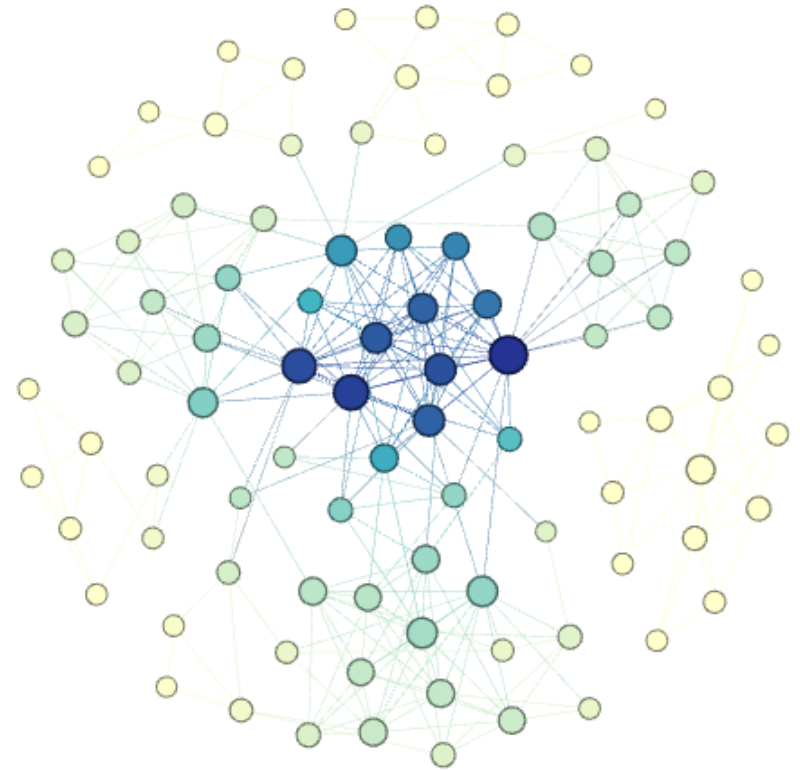Maria is my groupmate from BMSTU and she also attended Technopark.

HITS

Top-5

```
0.0586648352744 Pavel Shvechikov
0.0558756891432 Aleksandr Tsvetkov
0.0529086486694 Mariia Zubareva
0.052111360842 Khambek Archakov
0.0497580994834 Aleksei Shuklin
```

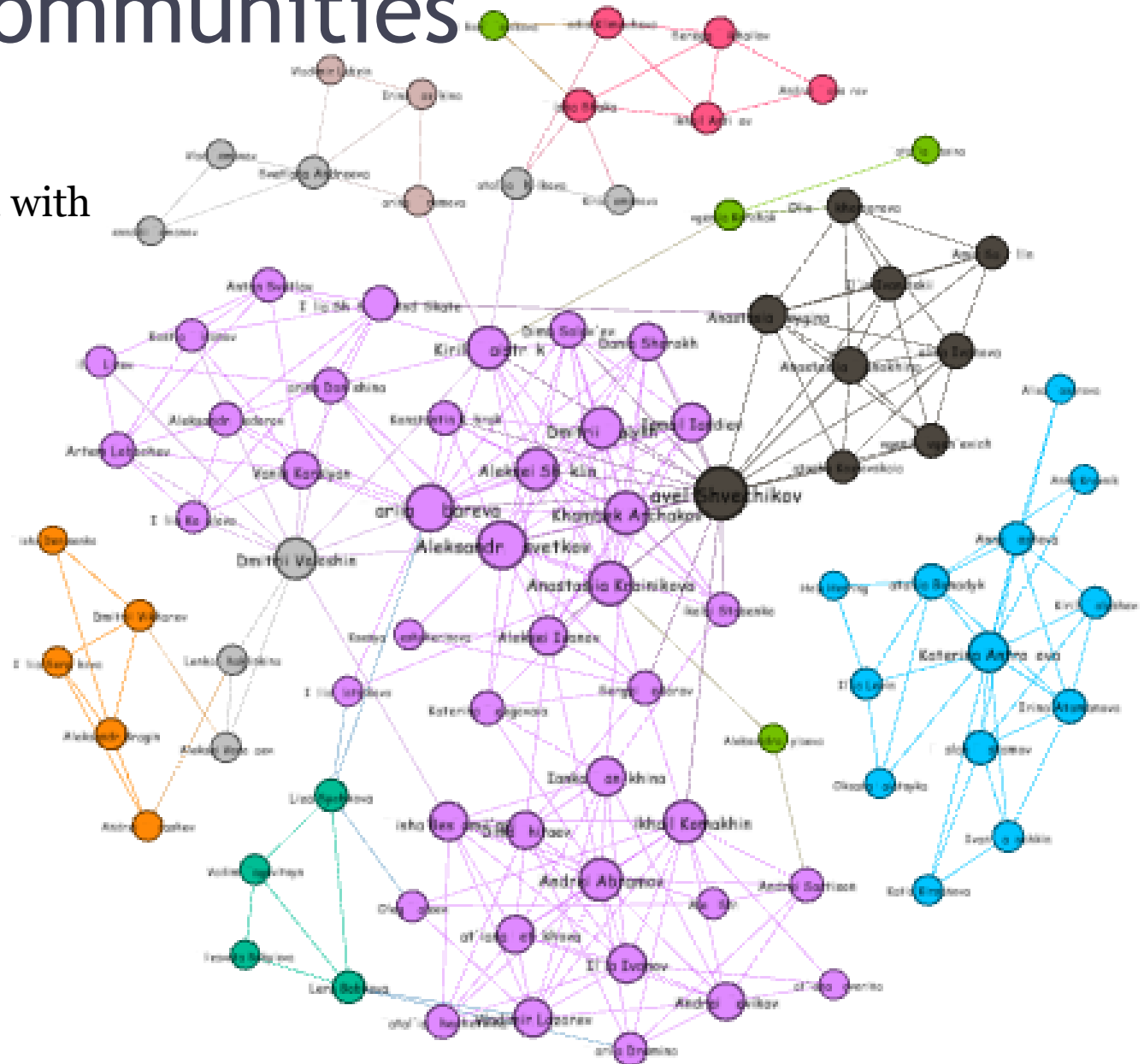*(Hubs and auths are equivalent here)*

Alexander is my groupmate from BMSTU (and he is a representative of Student Soviet) and he also attended Technopark.

Conslusion about the tops

- There are pretty much the same people in all these tops. These people have high degree and Tend to know people from various communities, that's why they have high values of different metrics.
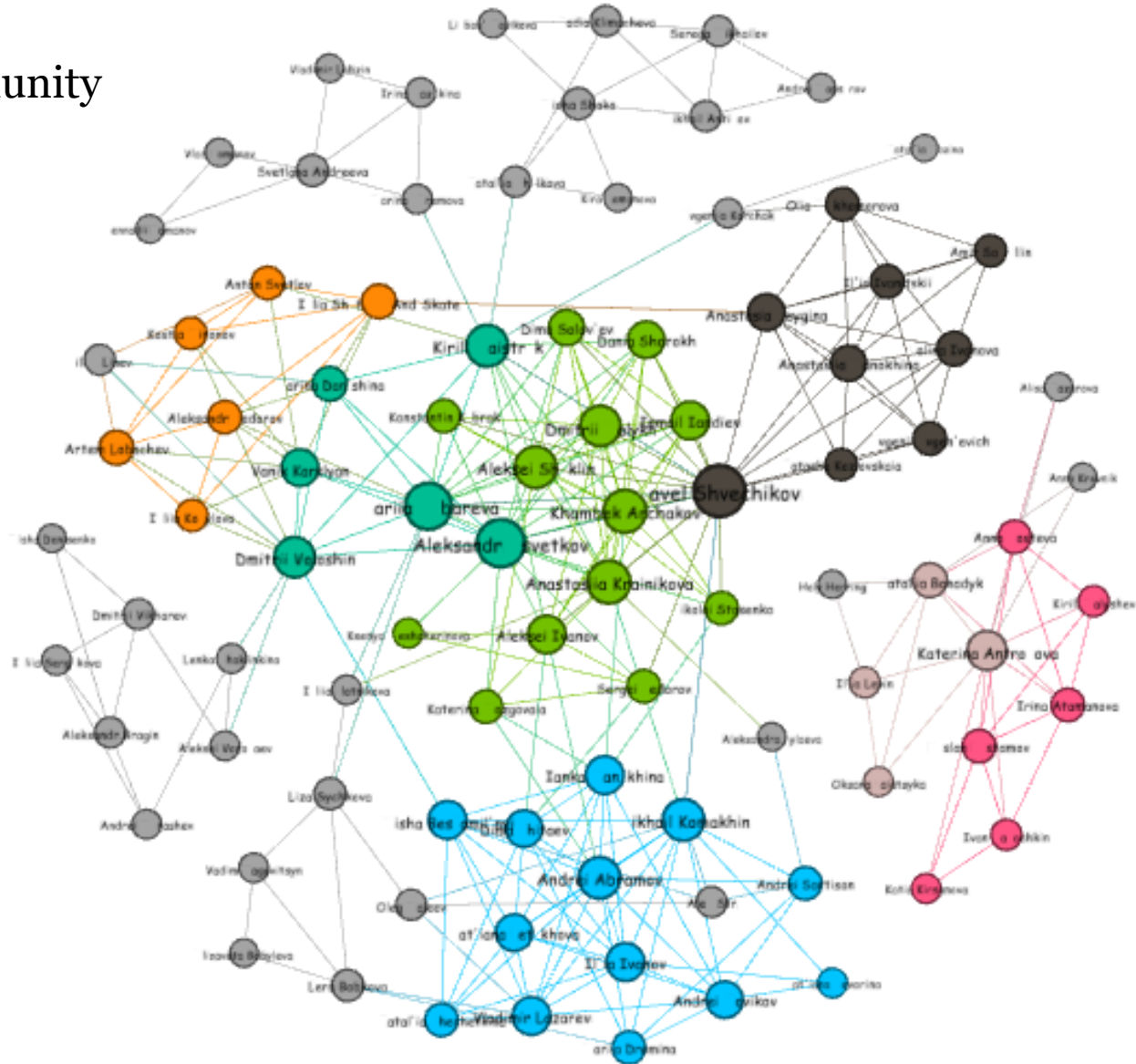
Clique3-communities

Physmath school and
Technopark are united with
BMSTU community,
Pavel moves to HSE ☺

Clique4-communities

- 55% nodes are not in community
- IU3 group of BMSTU
- Technopark group
- 1 + 2
- HSE
- Physmath school
- Forumchans splitted
on two groups:
who are from Ramenskoe
and who are not

Clique5-communities

- 70% nodes are not in community
- IU3 group of BMSTU
- HSE (2 comm's)
- Lecturers of physmath school
- People from city Ramenskoe