



## ADVANCED PHYSICS CLUB

DECEMBER 20, 2020

### USEFUL RESOURCES

The updates, homework assignments, and useful links for APC can be found on SchoolNova's web page:

[https://schoolnova.org/nova/classinfo?class\\_id=adv\\_phy\\_club&sem\\_id=ay2020](https://schoolnova.org/nova/classinfo?class_id=adv_phy_club&sem_id=ay2020)

The practical information about the club and contacts can be found on the same web page.

### TODAY'S MEETING

Today we solved a few problems involving friction force. After the break, we start preparing for the  $F = ma$  exam. To make the preparation effective, please, solve the  $F = ma$  exam over the break (see below) and give us feedback by email or through Discord.

### HOMEWORK PART

1. Solve  $F = ma$  exam 2014 and time yourself. You can download exam problems here:

<https://aapt.org/physicsteam/2015/upload/exam1-2014-2-2.pdf>

Please, time yourself and try to do all problems within 75 minutes as explained on the first page of the exam set.

2. Give us feedback on  $F = ma$  2014. We are interested in the following:

- Which problems were the most difficult for you?
- Which problems took the most time to solve?
- Which problems were on physics topics that you do not know well.

You can send us feedback either by email: [apc@schoolnova.org](mailto:apc@schoolnova.org) or using Discord.

3. Ask your high school teacher or parent to register you for the  $F = ma$  exam if you plan to take it this year. The deadline for registration is January 18, 2021.

The  $F=ma$  exam for 2021 will be online at one time only, offered on February 18, 2021, at 4 pm EST, administered by the Art of Problem Solving. For 2021 we ask that only the students' high school science/physics teacher, or parent/guardian register for the  $F = ma$  exam. The registration information for  $F = ma$  2021 can be found here:

<https://aapt.org/physicsteam/2021/registration.cfm>

### FOR THE NEXT MEETING

**IMPORTANT:** The next club's meeting is at 3:00pm, via Zoom, on Sunday, **January 10**.