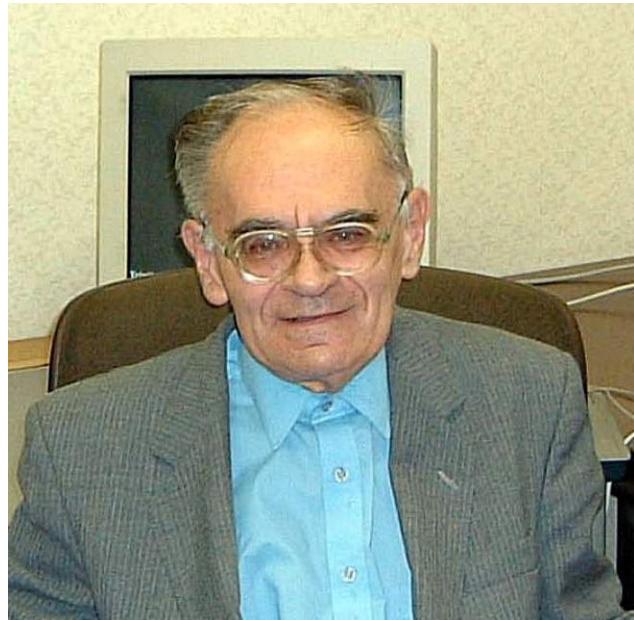


Анатолий Борисович Михайловский



(22 мая 1935 — 21 декабря 2014)

Анатолий Борисович Михайловский родился 22 мая 1935 г.

В 1959 г. окончил Московский инженерно-физический институт по специальности теоретическая ядерная физика. В 1963 г. окончил аспирантуру Института атомной энергии им. И.В. Курчатова по специальности физика и химия плазмы. В 1966 году защитил докторскую диссертацию по той же специальности. 20 января 2006 года присвоено звание профессора по специальности физика плазмы. Член-корреспондент РАН с 29.05.2008 - Отделение физических наук (физика).

Область научных интересов и сфера деятельности Анатолия Борисовича - физика высокотемпературной плазмы и астрофизика. Основным предметом исследований была проблема устойчивости плазмы в задачах магнитного удержания термоядерной плазмы. А. Б. Михайловский предсказал дрейфово-циклotronную (совместно с А. В. Тимофеевым) и дрейфово-альфвеновскую неустойчивости (совместно с И. И. Рудаковым), являющиеся краеугольными камнями современной теории неустойчивостей магнитоактивной плазмы.

А. Б. Михайловским разработана общая теория неустойчивости бесстолкновительной плазмы в магнитном поле, силовые линии которого представляют собой прямые линии. Совместно с коллегами из Института Иоффе им также открыта дрейфово-коническая неустойчивость плазмы, ответственная за выброс плазмы из системы магнитных зеркал.

Совместно с Б. Б. Кадомцевым и А. В. Тимофеевым разработана теория волн с отрицательной энергией в диспергирующих средах. Им сформулирована концепция пучково-дрейфовой и других неустойчивостей.

Проведён ряд исследований коллективных явлений в плазме, заключённой в тороидальном магнитном поле, в первую очередь в токамаках. Совместно с В. Д. Шафрановым обнаружен эффект самостабилизации плазмы под высоким давлением в тороидальных системах.

Наравне с теорией термоядерной плазмы имеет ряд работ в области теории гравитирующих систем (совместно с А. М. Фридманом), релятивистской астрофизической плазмы (совместно с Р. З. Сагдеевым и Д. Г. Ломинадзе) и космической физики (совместно с О. А. Похотовым).

Автор более чем 360 работ, опубликованных в ведущих научных журналах, 5 монографий и 13 обзоров.

Михайловский создал мощную научную школу. Среди его учеников 14 кандидатов наук, несколько докторов наук, и несколько академиков. Многие из его учеников хорошо известны в мире в термоядерном сообществе.

Доктор физико-математических наук, профессор, главный научный сотрудник отдела теории плазмы в Институте ядерного синтеза Курчатовского института, Михайловский, несомненно, является одним из мировых лидеров в области теории высокотемпературной намагниченной плазмы. Он является одним из самых признанных теоретиков в области физики плазмы.

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