

**Получение пленок Ва-Sr-Nb-О при помощи разряда с убегающими
электронами и их исследование.**

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<p class="s3"style="font-family: -webkit-standard; margin-top: 0px; margin-bottom: 0px; line-height: 1.2; text-align: center; font-size: 18px;»<span class="s2"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»Получение нbsp;пленок В<span class="s2"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»<span class="s2"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»S<span class="s2"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»r<span class="s2"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»-N<span class="s2"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»b<span class="s2"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»-<span class="s2"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»O<span class="s2"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»nbsp;при помощи разряда с убегающими электронами и их исследование<span class="s2"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;».</p><p class="s3"style="font-family: -webkit-standard; margin-top: 0px; margin-bottom: 0px; line-height: 1.2; text-align: center; font-size: 18px;»<span style="line-height: 21.600000381469727px;»nbsp;</p><p class="s3"style="margin-top: 0px; margin-bottom: 0px; line-height: 1.2; text-align: center; font-size: 18px;»<span style="font-family: 'Times New Roman';»А.И.Басханова
Т.А.Мусанип</p><p class="s3"style="font-family: -webkit-standard; margin-top: 0px; margin-bottom: 0px; line-height: 1.2; text-align: center; font-size: 18px;»<span class="s7"style="line-height: 8.399999618530273px; font-size: 7px; vertical-align: super; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 12.600000381469727px; font-size: 1.5em;»1<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»На<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»чно-исследовательский институт физики</p><p class="s3"style="font-family: -webkit-standard; margin-top: 0px; margin-bottom: 0px; line-height: 1.2; text-align: center; font-size: 18px;»<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»</p>

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г. Ростов-на-Дону, Россия</p><p class="s3"style="font-family: -webkit-standard; margin-top: 0px; margin-bottom: 0px; line-height: 1.2; text-align: center; font-size: 18px;»<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»e<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»-<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»mail<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»:nbsp;<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»ialiew<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»@<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»mail<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;».<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»ru</p><p class="s3"style="font-family: -webkit-standard; margin-top: 0px; margin-bottom: 0px; line-height: 1.2; text-align: center; font-size: 18px;»<span style="line-height: 21.600000381469727px;»nbsp;</p><p class="s9"style="font-family: -webkit-standard; margin-top: 0px; margin-bottom: 0px; line-height: 1.2; text-indent: 28px; text-align: justify; font-size: 18px;»<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»С применением метода, использующего режим разряда с убегающими электронами<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»nbsp;[1]<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»,<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;» в атмосфере кислорода при<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»разряда 160<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»nbsp;<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»Вт,<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»nbsp;давлениинnbsp;<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»</p></div><div><p>2</p></div>

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ны.<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px;
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[3].</p><p class="s9"style="font-family: -webkit-standard; margin-top:
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нок, являющихся результатом найденных режимов напыления эпитаксиальных пленок. На
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и типичная структура полученной BSN/(001)MgO пленк
 рефлексy, характеризирующие мишень и пленк
 у на
 подложк
 e (001)MgO.
 Отсутствие других рефлексов, соответствующих BSN мишени, свидетельствует о строгой ориентации (001) атомных плоскостей BSN пленки относительно атомных плоскостей подложк
 и
 (001)MgO.

Рисунок 1.
 Рентгенограмма мишени
 БСН
 (вверху) и типичная рентгенограмма пленк
 о
 на MgO
 (001)
 (внизу).

Рисунок 1.
 Рентгенограмма мишени
 БСН
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Рисунок 1.
 Рентгенограмма мишени
 БСН
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Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»

как это было отработано ранее при приготовлении
Ba
Sr
Ti
O
nbsp;
плен
ок
nbsp;на (001)
MgO
nbsp;
[1]
,
мож
ет быть использован прин

font-size: 1.5em;»Sr<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»-<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»Nb<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»-<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»O<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»nbsp;структур.</p> <p class="s14"style="font-family: -webkit-standard; margin-top: 0px; margin-bottom: 0px; line-height: 1.2; text-indent: 27px; text-align: justify; font-size: 18px;»<span style="line-height: 21.600000381469727px;»nbsp;</p> <div class="s17"style="font-family: -webkit-standard; margin-top: 0px; margin-bottom: 0px; line-height: 1.2; text-align: justify; margin-left: 0px; font-size: 18px;»<span class="s15"style="line-height: 13.199999809265137px; font-size: 11px; font-family: 'Times New Roman'; min-width: 0px;»1.nbsp;<a name="335»<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»В.М., Головки Ю.И., Толмачёв Г.Н., Мащенкоnbsp;<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»А.И.<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»,<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»nbsp;Журнал Технической Физики,<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman'; font-weight: bold;»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»68<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»,<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»nbsp;<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»№ 9, 99<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»nbsp;<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»(1998)<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;».</div> <div class="s17"style="font-family: -webkit-standard; margin-top: 0px; margin-bottom: 0px; line-height: 1.2; text-align: justify; margin-left: 0px; font-size: 18px;»<span class="s15"style="line-height: 13.199999809265137px; font-size: 11px; font-family: 'Times New Roman'; min-width: 0px;»2.nbsp;<span class="s6"style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bumpedFont15"style="line-height: 21.600000381469727px; font-size: 1.5em;»</div>

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к трудов Второго Международного междисциплинарного молодежного симпозиума laquo;Физик
бессвинцовых пьезоактивных и родственных материалов. (Анализ современного состояния
и перспективы развития)raquo; (laquo;<span class="s6" style="line-height: 14.399999618530273px; font-size: 12px; font-family: 'Times New Roman';»<span class="bump
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height: 21.600000381469727px; font-size: 1.5em;»г. Ростов-на-Дону ndash; г. Туапсе, изд-
во С-К НЦВШ nbsp;ЮФУ, 2013, Т.
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font-size: 1.5em;»Willmott P.R., Herger R., Patterson B.D., Windiks R.<span
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(2005).</div> <p class="s18" style="font-family: -webkit-standard; margin-
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