	Table	1:	Additional	AASTEX	symbols
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≲ μm = •	\lesssim, \la \micron \dbond \sun	≥ = ⊕	\gtrsim, \ga \sbond \tbond \earth
\bigcirc	\diameter	_	
0	\arcdeg, \degr		\sq
/	\arcmin	//	\arcsec
	\fd	h •	\fh
$_{\boldsymbol{\cdot}}^{m}$	\fm	s .	\fs
•	\fdg	<i>'</i>	\farcm
"	\farcs	P •	\fp
$\frac{1}{2}$	\onehalf	UBVR	\ubvr
$\frac{\tilde{1}}{3}$	\onethird	$U\!-\!B$	\ub
$\frac{2}{3}$	\twothirds	B-V	\bv
<u>1</u>	\onequarter	V - R	\vr
12132314314314	\threequarters	$U\!-\!R$	\ur

Table 2: Text-mode accents

ò	\'{o}	ō	\={o}	oo	\t{oo}
ó	\'{o}	ò	\.{o}	Q	\c{o}
ô	\^{o}	ŏ	\u{o}	ó	\d{o}
ö	\"{o}	ŏ	\v{o}	$\bar{\mathbf{O}}$	\b{o}
õ	/~{^}	ő	/ ከኒ∨ያ		

Table 3: National symbols

œ	\oe	å	\aa	ł	\1
Œ	\0E	Å	\AA	Ł	\L
æ	\ae	Ø	\0	ß	\ss
ZΕ	\	α	١.		

Table 4: Math-mode accents

\hat{a}	\hat{a}	à	\dot{a}
α	راتفا تاتار	α	(400 (4)
\check{a}	\check{a}	\ddot{a}	\dot{a}
\tilde{a}	\tilde{a}	$reve{a}$	\breve{a}
\acute{a}	\acute{a}	\bar{a}	\bar{a}
à	\grave{a}	\vec{a}	\vec{a}

Table 5: Greek and Hebrew letters (math mode)

α	\alpha	ν	\nu
β	\beta	ξ	\xi
γ	\gamma	o	0
δ	\delta	π	\pi
ϵ	\epsilon	ho	\rho
ζ	\zeta	σ	\sigma
η	\eta	au	\tau
θ	\theta	v	υ
ι	\iota	ϕ	\phi
κ	\kappa	χ	\chi
λ	\lambda	ψ	\psi
μ	\mu	ω	\omega
F	\digamma	\varkappa	\varkappa
ε	\varepsilon	ς	\varsigma
ϑ	\vartheta	φ	\varphi
ϱ	\varrho		
Γ	\Gamma	\sum	\Sigma
Δ	\Delta	Υ	Υ
Θ	\Theta	Φ	\Phi
Λ	\Lambda	Ψ	\Psi
Ξ	\Xi	Ω	\Omega
Π	\Pi		
×	\aleph	コ	\beth
J	\gimel	٦	\daleth

Table 6: Binary operators (math mode)

\pm	\pm	\cap	\cap
Ŧ	\mp	\cup	\cup
\	\setminus	\forall	\uplus
	\cdot	П	\sqcap
×	\times	\sqcup	\sqcup
*	\ast	\triangleleft	\triangleleft
*	\star	\triangleright	$\$ triangleright
\Diamond	\diamond	}	\wr
0	\circ	\bigcirc	\bigcirc
•	\bullet	\triangle	\bigtriangleup
÷	\div	∇	\bigtriangledown
\triangleleft	\lhd	\triangleright	\rhd
\vee	\vee	\odot	\odot
\wedge	\wedge	†	\dagger
\oplus	\oplus	‡	\ddagger
\ominus	\ominus	П	\amalg
\otimes	\otimes	\leq	\unlhd
\oslash	\oslash	\trianglerighteq	\unrhd

Table 7: AMS binary operators (math mode)

$\dot{+}$	\dotplus	×	\ltimes
\	\smallsetminus	×	\rtimes
\bigcap	\Cap, \doublecap	λ	\leftthreetimes
$\qquad \qquad \bigcup$	\Cup, \doublecup	/	\rightthreetimes
$\overline{\wedge}$	\barwedge	人	\curlywedge
<u>∨</u> = ^	\veebar	Υ	\curlyvee
$\overline{\wedge}$	\doublebarwedge		
\Box	\boxminus	\ominus	\circleddash
\boxtimes	\boxtimes	*	\circledast
$oldsymbol{\cdot}$	\boxdot	0	\circledcirc
\blacksquare	\boxplus		\centerdot
*	\divideontimes	Т	\intercal

Table 8: Miscellaneous symbols

†	\dag	§	\S
©	\copyright	‡	\ddag
\P	\ P	£	\pounds
#	\ #	\$	\\$
%	\%	&	\&
_	_	{	\{
}	\}	•	

Table 10: AMS miscellaneous symbols (math mode)

\hbar	\hbar	1	\backprime
\hbar	\hslash	Ø	$\vert varnothing$
Δ	$\$ vartriangle	A	$\$ blacktriangle
∇	\triangledown	lacktriangledown	\blacktriangledown
	\square		\blacksquare
\Diamond	\lozenge	♦	\blacklozenge
\odot	\circledS	*	\bigstar
_	\angle	⋖	\sphericalangle
4	\measuredangle		
∄	\nexists	C	\complement
Ω	\mho	ð	\eth
Ь	\Finv	/	\diagup
G	\Game		\diagdown
\Bbbk	\Bbbk	1	\restriction

Table 11: Arrows (math mode)

```
\aleph
                            \prime
    \hbar
                       Ø
\hbar
                            \emptyset
                       \nabla
                           \nabla
    \imath
    \jmath
                           \surd
    \ell
                            \top
    qw/
                           \bot
0
\Re
    \Re
                       \backslash I
\Im
                           \angle
    \Im
                       _
                       \triangle
\partial
    \partial
                           \triangle
\infty
    \infty
                            \backslash
\Diamond
    \Box
\forall
     \forall
                           \sharp
\exists
     \exists
                           \clubsuit
                           \diamondsuit
     \neg
```

\flat \natural

\mho

 Ω

\heartsuit

\spadesuit

Table 9: Miscellaneous symbols (math mode)

```
← \leftarrow
                          \leftarrow \longleftarrow
← \Leftarrow
                          ← \Longleftarrow
\rightarrow \rightarrow
                          \longrightarrow \label{longright} \label{longright} \label{longright}
⇒ \Rightarrow
                          ⇒ \Longrightarrow
\leftrightarrow \ \leftrightarrow
                          \longleftrightarrow \label{longleftrightarrow}
⇔ \Leftrightarrow
                          \iff \label{longleftrightarrow}
\mapsto \mbox{\tt mapsto}
                          \longrightarrow \label{longmapsto}
                           \hookrightarrow \hookrightarrow
→ \rightharpoonup
→ \rightharpoondown
\rightleftharpoons\rightleftharpoons \leadsto \leadsto
↑ \uparrow
                            ↑ \Updownarrow
↑ \Uparrow
                               \nearrow
↓ \downarrow
                               \searrow
↓ \Downarrow
                               \swarrow
↑ \updownarrow
                               \nwarrow
```

Table 12: AMS arrows (math mode)

← – –	\dashleftarrow	>	\dashrightarrow
otin oti	\leftleftarrows	\Rightarrow	\rightrightarrows
$\stackrel{\longleftarrow}{\longrightarrow}$	\leftrightarrows	ightleftarrows	\rightleftarrows
\Leftarrow	\Lleftarrow	\Rightarrow	\Rrightarrow
₩	\twoheadleftarrow	\longrightarrow	$\verb \twoheadrightarrow $
\longleftarrow	\leftarrowtail	\longrightarrow	\rightarrowtail
\leftarrow	\looparrowleft	$ \hookrightarrow $	\looparrowright
\leftrightarrows	\leftrightharpoons	\rightleftharpoons	\rightleftharpoons
$ \leftarrow $	\curvearrowleft	\curvearrowright	\curvearrowright
Q	\circlearrowleft	\bigcirc	\circlearrowright
↰	\Lsh	ightharpoons	\Rsh
$\uparrow\uparrow$	\upuparrows	$\downarrow\downarrow$	\downdownarrows
1	\upharpoonleft	1	\upharpoonright
1	\downharpoonleft	L	\downharpoonright
_0	\multimap	\leadsto	\rightsquigarrow
~~ →	\leftrightsquigarrow	J	
\leftarrow	\nleftarrow	$\rightarrow \rightarrow$	\nrightarrow
#	\nLeftarrow	\Rightarrow	\nRightarrow
$\leftrightarrow \rightarrow$	\nleftrightarrow	\Leftrightarrow	\nLeftrightarrow

Table 13: Relations (math mode)

\leq	\leq	\geq	\geq
\prec	\prec	\succ	\succ
\preceq	\preceq	\succeq	\succeq
\ll	\11	\gg	\gg
\subset	\subset	\supset	\supset
\subseteq	\subseteq	\supseteq	\supseteq
	\sqsubset		\sqsupset
	\sqsubseteq	\supseteq	\sqsupseteq
\in	\in	\ni	\ni
\vdash	\vdash	\dashv	\dashv
\smile	\smile		\mid
$\overline{}$	\frown	Ì	\parallel
\neq	\neq	Ţ	\perp
\equiv	\equiv	\cong	\cong
\sim	\sim	\bowtie	\bowtie
\simeq	\simeq	\propto	\propto
\asymp	\asymp	=	\models
\approx	\approx	Ė	\doteq
		\bowtie	\Join

Table 14: AMS binary relations (math mode)

\leq	\leqq	\geq	\geqq
\leq	\leqslant	\geqslant	\geqslant
<	\eqslantless	\geqslant	\eqslantgtr
\lesssim	<pre>\leqq \leqslant \eqslantless \lesssim \lessapprox \approxeq</pre>	\gtrsim	<pre>\geqq \geqslant \eqslantgtr \gtrsim \gtrapprox \eqsim</pre>
≲	\lessapprox	\gtrapprox	\gtrapprox
\approx	\approxeq	$\overline{\sim}$	\eqsim
<•	\lessdot	⋗	\gtrdot
~	(\111,\111ess	>>>	·\ggg,\gggtr
≶	\lessgtr	\geq	\gtrless
<u> </u>	\lesseqgtr	\geq	\gtreqless
\leq	\lessgtr \lesseqgtr \lesseqqgtr \doteqdot, \Doteq \risingdotseq	\geq	\gtrless \gtreqless \gtreqqless \eqcirc
÷	\doteqdot, \Doteq	<u> </u>	\eqcirc
=	\risingdotseq	$\stackrel{\circ}{=}$	\circeq
=	\fallingdotseq	\triangleq	\triangleq
~	\backsim	\sim	\thicksim
~	\backsimeq	\approx	\thickapprox
\subseteq	\subseteqq	\supseteq	\supseteqq
S	\Subset	\ni	\Supset
	\sqsubset	\Box	\sqsupset
□ ※ ※ ※	\preccurlyeq	$\mathbb{A}_{\mathbb{A}}$	\succcurlyeq
\Rightarrow	\curlyeqprec	\succ	\curlyeqsucc
$\stackrel{<}{\sim}$	\precsim \precapprox \vartriangleleft	\succeq	\succsim \succapprox
$\stackrel{\sim}{\approx}$	\precapprox	≲	\succapprox
\triangleleft	\vertriangleleft	\triangleright	$\$ vartriangleright
⊴ =	\trianglelefteq	\trianglerighteq	\trianglerighteq
	\vDash	⊩	\Vdash
⊩	\Vvdash		
$\overline{}$	\smallsmile	1	\shortmid
$\overline{}$	\smallfrown	П	\shortparallel
~	\bumpeq	Ŏ	\between
≎	\Bumpeq	ψ	\pitchfork
\propto	\varpropto	Э	\backepsilon
◀	\blacktriangleleft	\blacktriangleright	$\begin{tabular}{ll} \verb&\blacktriangleright \\ \end{tabular}$
٠.	\therefore	•.•	\because

Table 15: AMS negated relations (math mode)

* * **********************************	<pre>\nless \nleq \nleqslant \nleqq \lneq \lneqq \lneqq \lvertneqq \lnsim \lnapprox \nprec \npreceq \precneqq \precnsim \precnapprox \nsim \nshortmid</pre>	* #**** *********	<pre>\ngtr \ngeq \ngeqslant \ngeqq \gneq \gneq \gneqq \gvertneqq \gnsim \gnapprox \nsucc \nsucceq \succneqq \succneqq \succnopprox \ncong \nshortparallel</pre>
∤ ⊬	\nmid \nvdash	∦ ⊭	\nparallel \nvDash
` 	\nVdash	, ⊭	\nVDash
	<pre>\ntriangleleft \ntrianglelefteq \nsubseteq \nsubseteqq \subsetneq \varsubsetneq \subsetneqq \varsubsetneqq \varsubsetneqq</pre>		<pre>\ntriangleright \ntrianglerighteq \nsupseteq \nsupseteqq \supsetneq \varsupsetneq \supsetneqq \varsupsetneqq \varsupsetneqq</pre>

Table 17: Delimiters (math mode)

(())
ĺ	[ĺ]
{	\{	}	\}
Ĺ	\lfloor		\rfloor
	\lceil]	\rceil
<	\langle	\rangle	\rangle
/	/	\	\backslash
	\vert		\Vert
\uparrow	\uparrow	\uparrow	\Uparrow
\downarrow	\downarrow	\Downarrow	\Downarrow
\uparrow	\updownarrow	\$	\Updownarrow
Γ	\ulcorner	٦	\urcorner
L	\llcorner	_	\lrcorner

Table 16: Variable-sized symbols (math mode)

\sum	\sum	\sum	\cap	\cap	\bigcap
П	Π	\prod	Ü		\bigcup
П	İİ	\coprod	Ш	Ŭ	\bigsqcup
\int	\int	\int	V	\bigvee	\bigvee
∮	\oint	\oint	\wedge	\land	\bigwedge
\odot	Ó	\bigodot	\otimes	\otimes	\bigotimes
\oplus	\bigoplus	\bigoplus	+	$\dot{+}$	\biguplus

Table 18: Function names (math mode)

\arccos	\csc	\ker	\min
\arcsin	\deg	\lg	\Pr
\arctan	\det	\lim	\sec
\arg	\dim	\liminf	\sin
\cos	\exp	\label{limsup}	\sinh
\cosh	\gcd	\ln	\sup
\cot	\hom	\log	\tan
\coth	\inf	\max	\tanh