Table 1: Additional	AAST _E X	symbols
---------------------	---------------------	---------

$\stackrel{<}{\sim} \mu \mathrm{m}$	\lesssim, \la \micron \dbond	>	\gtrsim, \ga \sbond \tbond
⊙ <i>△</i>	\sun	\oplus	\earth
\bigcirc	\diameter		
0	\arcdeg, \degr		\sq
,	\arcmin	//	\arcsec
	\fd	h •	\fh
m	\fm	s •	\fs
•	\fdg	<i>'</i>	\farcm
<i>"</i>	\farcs	P •	\fp
$\frac{1}{2}$	\onehalf	UBVR	\ubvr
$\frac{I}{3}$	\onethird	$U\!-\!B$	\ub
$\frac{2}{3}$	\twothirds	B - V	\bv
$\frac{1}{4}$	\onequarter	V - R	\vr
1 2 1 3 2 3 4 3 4	\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	\~{o}	ő	\H{o}		

Table 3: National symbols

œ	\oe	å	\aa	ł	\1
Œ	\0E	Å	\AA	Ł	\L
æ	\ae	Ø	\0	В	\ss
Æ	\ \ F	Ø	۱.		

Table 4: Math-mode accents

\hat{a}	\hat{a}	\dot{a}	\dot{a}
\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}	$ec{a}$	\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	ε	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
I	\gimel	٦	\daleth

Table 6: Binary operators (math mode)

\pm	\pm	\cap	\cap
干	\mp	\cup	\cup
\	\setminus	\forall	\uplus
	\cdot		\sqcap
×	\times	Ш	\sqcup
*	\ast	◁	\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	\bowtie	\ltimes
\	\smallsetminus	\rtimes	\rtimes
\bigcap	\Cap, \doublecap	\rightarrow	\leftthreetimes
U	\Cup, \doublecup	/	\rightthreetimes
$\overline{\wedge}$	\barwedge	人	\curlywedge
<u>\\</u>	\veebar	Υ	\curlyvee
$\overline{\wedge}$	\doublebarwedge		
\Box	\boxminus	\ominus	\circleddash
\boxtimes	\boxtimes	*	\circledast
lacksquare	\boxdot	0	\circledcirc
\blacksquare	\boxplus		\centerdot
*	\divideontimes	Т	\intercal

Table 8: Miscellaneous symbols

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

Table 9: Miscellaneous symbols (math mode)

×	\aleph	/	\prime
\hbar	\hbar	Ø	\emptyset
\imath	\imath	∇	\nabla
J	$\$ jmath	$\sqrt{}$	\surd
ℓ	\ell	T	\top
Ø	\wp	\perp	\bot
\Re	\Re		\1
\Im	\Im	_	\angle
∂	$\operatorname{\mathtt{ar{p}artial}}$	\triangle	\triangle
∞	∞	\	\backslash
	\Box	\Diamond	\Diamond
\forall	\forall	#	\sharp
\exists	\exists	#	\clubsuit
\neg	\neg	\Diamond	\diamondsuit
þ	\flat	\Diamond	\heartsuit
þ	\n	^	\spadesuit

 \mbox{mho}

Table 10: AMS miscellaneous symbols (math mode)

\hbar	\hbar	1	\backprime
\hbar	\hslash	Ø	\varnothing
Δ	\vartriangle	\blacktriangle	\blacktriangle
∇	\triangledown	lacktriangledown	\blacktriangledown
	\square		\blacksquare
\Diamond	\lozenge	♦	\blacklozenge
\odot	\circledS	\star	\bigstar
_	\angle	\triangleleft	\sphericalangle
4	\measuredangle		
∄	\nexists	С	\complement
Ω	\mho	ð	\eth
\exists	\Finv	/	\diagup
G	\Game		\diagdown
\Bbbk	\Bbbk		\restriction

Table 11: Arrows (math mode)

```
\leftarrow \texttt{\leftarrow}
                             ← \longleftarrow
\Leftarrow \Leftarrow
                             \iff \Longleftarrow
\rightarrow \texttt{\ \ }
                             \longrightarrow \label{longright} \label{longright} \label{longright}
\Rightarrow \setminus \texttt{Rightarrow}
                             \Longrightarrow \Longrightarrow
\leftrightarrow \ \leftrightarrow
                             \longleftrightarrow \label{longleftrightarrow}
⇔ \Leftrightarrow
                             \mapsto \mbox{\tt mapsto}
                             \longmapsto \texttt{\longmapsto}
\leftarrow \verb|\hookleftarrow|
                              \hookrightarrow \hookrightarrow

→ \rightharpoonup

→ \rightharpoondown
\rightleftharpoons\rightleftharpoons \leadsto \leadsto
↑ \uparrow
                                 \Updownarrow
↑ \Uparrow
                                  \nearrow
↓ \downarrow

√ \searrow

↓ \Downarrow
                                  \swarrow

√ \nwarrow

$\updownarrow
```

Table 12: AMS arrows (math mode)

← – –	\dashleftarrow	→	\dashrightarrow
otin	\leftleftarrows		\rightrightarrows
$\stackrel{\longleftarrow}{\longrightarrow}$	\leftrightarrows	$\stackrel{\longrightarrow}{\longleftarrow}$	\rightleftarrows
\Leftarrow	\Lleftarrow	\Rightarrow	\Rrightarrow
\leftarrow	\twoheadleftarrow	\longrightarrow	\twoheadrightarrow
\leftarrow	\leftarrowtail	\longrightarrow	\rightarrowtail
\leftarrow	\looparrowleft		\looparrowright
\leftrightharpoons	\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		\downharpoonright
_0	\multimap	\rightsquigarrow	\rightsquigarrow
< ~~→	\leftrightsquigarrow	ī	
$\leftarrow\!$	\nleftarrow	$\rightarrow \rightarrow$	\nrightarrow
#	\nLeftarrow	\Rightarrow	\nRightarrow
$\leftrightarrow \rightarrow$	\nleftrightarrow	₩	\nLeftrightarrow

Table 13: Relations (math mode)

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

Table 14: AMS binary relations (math mode)

\leq	<pre>\leqq \leqslant \eqslantless \lesssim \lessapprox \approxeq \lessdot</pre>	\geq	\geqq
_ <	\leqslant	≽	\geqslant
<	\eqslantless	≽	\eqslantgtr
\lesssim	\lesssim	\gtrsim	\gtrsim
≲	\lessapprox	\gtrapprox	\eqslantgtr \gtrsim \gtrapprox \eqsim
\approx	\approxeq	$\overline{\sim}$	\eqsim
≪	\lessdot		\gtrdot
		>>>	\ggg, \gggtr
\leq	\lessgtr	\geq	\gtrless
\leq	\lesseqgtr	\geq	\gtreqless
⋛	<pre>\lessgtr \lesseqgtr \lesseqqgtr \doteqdot, \Doteq \risingdotseq \fallingdotseq</pre>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\gtreqqless
÷	\doteqdot, \Doteq	Ξ.	\eqcirc
=	\risingdotseq	$\stackrel{\circ}{=}$	\circeq
=	\fallingdotseq	\triangleq	\triangleq
\sim	\backsim	~	\thicksim
	\backsimeq	\approx	\thickapprox
S □ □	\subseteqq	\supseteq	\supseteqq
€	\Subset	∋	\Supset
	\sqsubset		\sasupset
\preccurlyeq	\preccurlyeq	\succcurlyeq	\succcurlyeq \curlyeqsucc \succsim \succapprox
\curlyeqprec	\curlyeqprec	\swarrow	\curlyeqsucc
△ 8.4.2.7. J.	\precsim	\searrow	\succsim
$\stackrel{\scriptstyle \sim}{\approx}$	\precapprox	≅	\succapprox
\triangleleft	\vartriangleleft	\triangleright	\vartriangleright
⊴ ⊨	\trianglelefteq		\trianglerighteq
	\vDash	\vdash	\Vdash
ll-	\Vvdash		
\smile	\smallsmile	1	\shortmid
$\overline{}$	\smallfrown	Ш	\shortparallel
_	\bumpeq	Ŏ	\between
≎	\Bumpeq	ф	\pitchfork
\propto	\varpropto	Э	\backepsilon
◀	\blacktriangleleft		\blacktriangleright
٠.	\therefore		\because

] \} \rfloor

\rceil

\rangle \backslash \Vert

\Uparrow

\Downarrow

\Updownarrow

\urcorner

\lrcorner

Table 15: AMS negated relations (math mode)

Table 16: Variable-sized symbols (math mode)

Σ Π ∐	\prod_{ℓ}	\sum \prod \coprod	О U Ц	\bigcup_{\square}	\bigcap \bigcup \bigsqcup
ſ	J	\int	V	\vee	\bigvee
∮	\oint	\oint	\land	\land	\bigwedge
\odot	\odot	\bigodot	\otimes	\otimes	\bigotimes
\oplus	\bigoplus	\bigoplus	+	\forall	\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	an
\c	\inf	\max	\tanh