BEAM SPLITTERS and FILTERS for OBC / LFD Confocal Instruments

META2	LSM510META, serial # M202246							
Primary (Laser) beam splitter	**Emission beamsplitter #1 (to META)**	**Emission beamsplitter #2 (PMTs)**	**Channel 2 emission filters**	**Channel 3 emission filters**		**Available laser lines**	nm	
HFT 458	mirror	515	LP 475	LP 505		Ar	458, 477, 488, 514	
HFT 488	NFT 545	545	LP505	LP 530		HeNe 1	543	
HFT 458/514	NFT 570	plate	BP 475-525	LP 560		HeNe2	633	
HFT 477/543	NFT 635 VIS	mirror	BP 500/20 IR	LP 585				
HFT 488/543	none		BP 505-530	BP 560-615				
HFT 514/633	NFT KP 545		BP 505-550	BP 585-615				
HFT UV_488_543_633	plate		BP 530-600	LP 650				
NT 80/20								
Notes								
Primary beam splitter								
HFT - (hauptFarbTeiler)	deflects the indicated wavelength onto the specimen and allows the emmited fluorescent light to pass through - e.g. 458/514							
HFT KP	deflects laser light longer than 650nm (IR) onto specimen and allows transmission of fluorescent light shorter than 650nm							
HFT KP XXX_YYY	combination HFT YYY and HFT KP XXX used for simultaneous IR multiphoton and single photon excitation							
Emission beam splitter								
NFT - (nebenfarb teiler)	used to split light to be guided into separate channels. Light shorter than number is deflected while light with longer wavelength is transmitted.							
NFT KP YYY	splits transmitted light in opposite manner - i.e. allows transmission of light shorter than YYY and deflects above YYY nm.							
Emission filters	LP XXX (long pass) transmits light with wavelengths longer than threshold XXX nm							
	KP XXX (short pass) transmits light with wavelength shorter than indicated threshold XXX nm							
	BP XXX-YYY (band pass) transmits light between wavelengths XXX and YYY							
	BP XXX/YY (band pass) transmits light of wavelength XXX ± 0.5 x YY							
	BP....IR denotes band pass filter suitable for detection of IR excited dyes. It blocks IR light.							